

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033952.D
 Acq On : 25 Jun 2019 1:16
 Operator : SY/AP
 Sample : K3481-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-D-1

Quant Time: Jun 25 03:41:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	890189	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2235509	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.22	117	2240413	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.56	95	1982295	10.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.07	85	46536	0.322	ppbv 97
3) Chlorodifluoromethane	3.00	51	164342	1.568	ppbv # 89
4) Chloromethane	3.17	50	3593	0.060	ppbv 91
7) Chloroethane	3.59	64	2971	0.135	ppbv # 71
9) Propene	3.03	41	16421	0.419	ppbv # 50
10) Heptane	8.23	43	755115	7.619	ppbv # 78
11) Trichlorofluoromethane	3.99	101	546085	2.930	ppbv 93
13) Ethanol	3.65	45	144837	11.353	ppbv 99
15) Acetone	3.89	43	19791748	152.443	ppbv # 66
16) 1,3-Butadiene	3.38	39	7590	0.154	ppbv # 6
17) tert-Butyl alcohol	4.35	59	3223182	31.758	ppbv 98
19) Isopropyl Alcohol	4.02	45	417395	5.628	ppbv # 94
20) Methylene Chloride	4.41	84	42593	0.841	ppbv # 90
21) Allyl Chloride	4.41	41	37093	0.503	ppbv # 1
23) Vinyl Acetate	5.14	43	38635	0.256	ppbv # 96
25) Ethyl Acetate	5.76	43	95960	0.485	ppbv # 82
26) Hexane	5.76	57	129925	1.443	ppbv # 41
27) Carbon Disulfide	4.60	76	108846	0.870	ppbv 95
29) Chloroform	5.84	83	34137	0.221	ppbv 93
34) 2-Butanone	5.31	43	2416236	19.159	ppbv 99
35) Carbon Tetrachloride	7.11	117	7937	0.046	ppbv # 78
36) Benzene	6.99	78	1932900	11.319	ppbv 99
37) 1,2-Dichloroethane	6.40	62	5318	0.042	ppbv # 85
38) Trichloroethene	7.95	130	27199	0.409	ppbv 94
39) 1,2-Dichloropropane	7.28	63	562554	8.536	ppbv # 25
41) Tetrahydrofuran	6.10	42	10050	0.157	ppbv # 63
42) Bromodichloromethane	8.16	83	189466	1.123	ppbv # 26
43) Methyl Methacrylate	8.16	69	3423908	53.610	ppbv # 73
44) 2,2,4-Trimethylpentane	7.97	57	26641	0.088	ppbv # 43
50) 4-Methyl-2-Pentanone	8.86	43	9582	0.051	ppbv # 1
51) 2-Hexanone	10.27	43	13916	0.095	ppbv # 29
52) Tetrachloroethene	11.35	164	167701	2.791	ppbv 91
53) Toluene	9.92	91	2681810	14.191	ppbv 98
58) Ethyl Benzene	12.84	91	12451876	49.296	ppbv 90
59) m/p-Xylene	13.11	91	27697221	120.580	ppbv # 83
60) o-Xylene	13.83	91	14606422	61.588	ppbv 91
61) Styrene	13.68	104	16622104	108.303	ppbv 95
62) Isopropylbenzene	14.80	105	408141	1.277	ppbv 99
64) n-propylbenzene	15.70	120	109359	1.336	ppbv 86
70) n-Butylbenzene	18.69	91	55456	0.147	ppbv # 90
71) 2-Chlorotoluene	15.70	91	555974	2.361	ppbv # 45

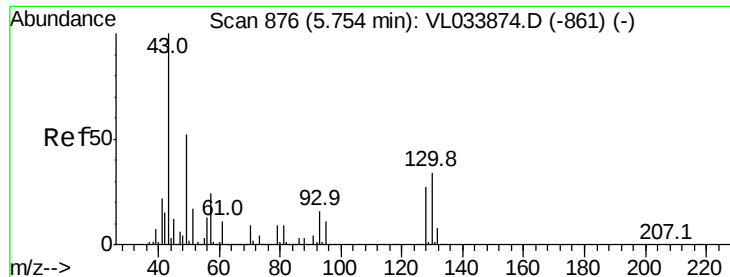
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
Data File : VL033952.D
Acq On : 25 Jun 2019 1:16
Operator : SY/AP
Sample : K3481-07
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1

Quant Time: Jun 25 03:41:36 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.97	105	29322	0.109	ppbv #	45
73) 1,3,5-Trimethylbenzene	16.14	105	33018	0.124	ppbv #	80
74) 1,2,4-Trimethylbenzene	16.90	105	47491	0.155	ppbv #	69
76) 1,4-Dichlorobenzene	17.29	146	16014	0.091	ppbv #	24
79) Naphthalene	22.38	128	8056	0.033	ppbv #	2
80) Naphthalene,2-methyl-	25.09	142	5494	0.056	ppbv #	66

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.00 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-1

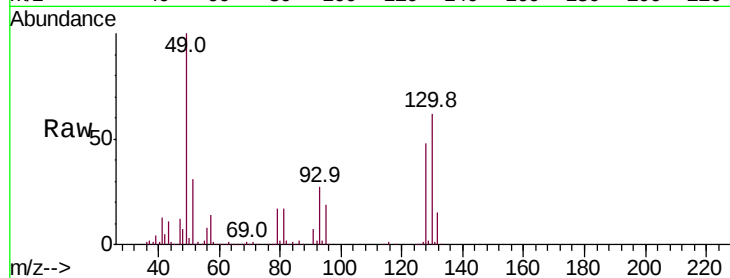
Tot Ion: 49 Resp: 890189

Ion Ratio Lower Upper

49 100

128 50.7 25.5 76.5

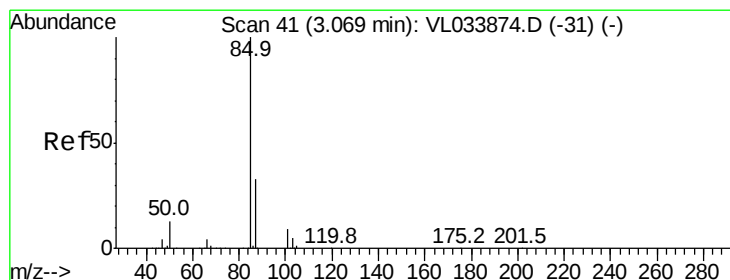
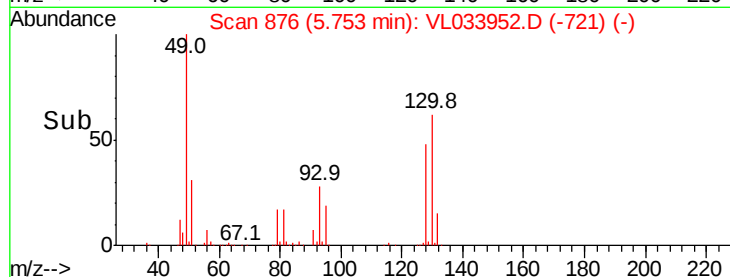
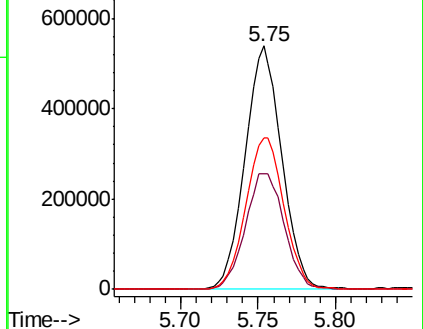
130 65.1 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.322 ppbv

RT: 3.07 min Scan# 40

Delta R.T. -0.00 min

Lab File: VL033952.D

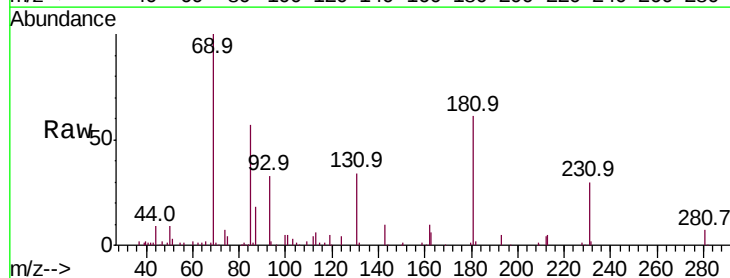
Acq: 25 Jun 2019 1:16

Tgt Ion: 85 Resp: 46536

Ion Ratio Lower Upper

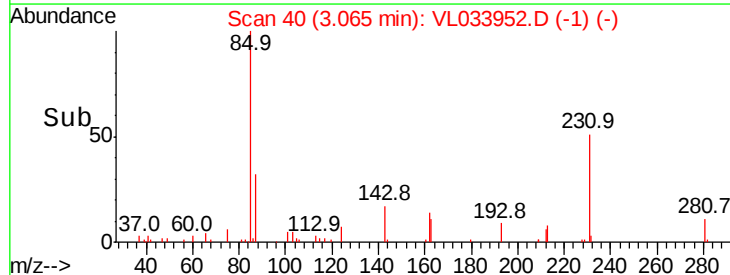
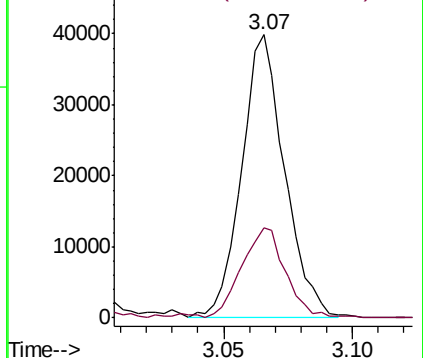
85 100

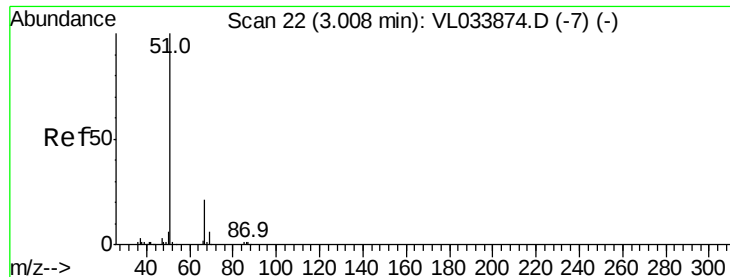
87 31.7 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

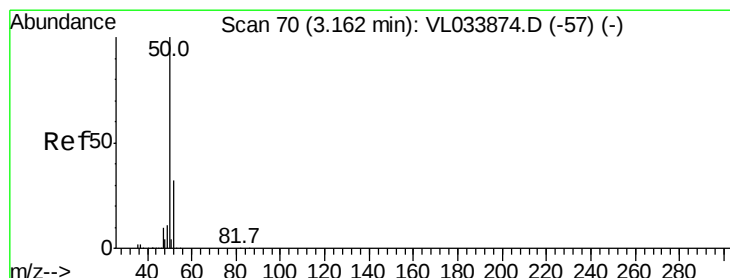
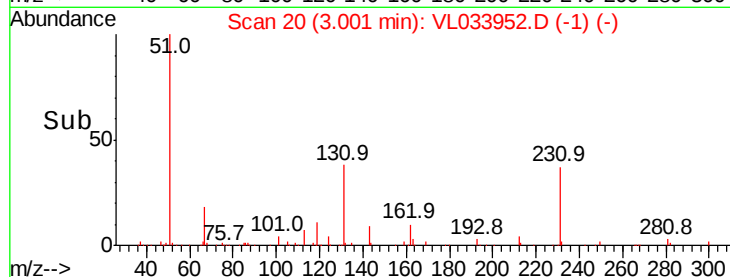
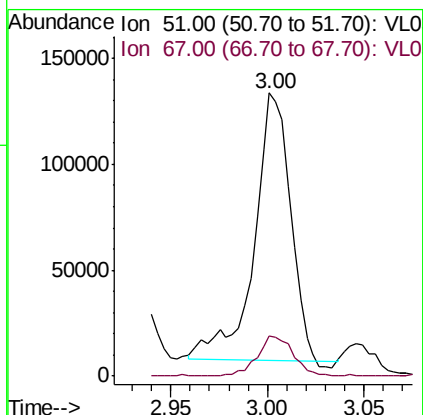
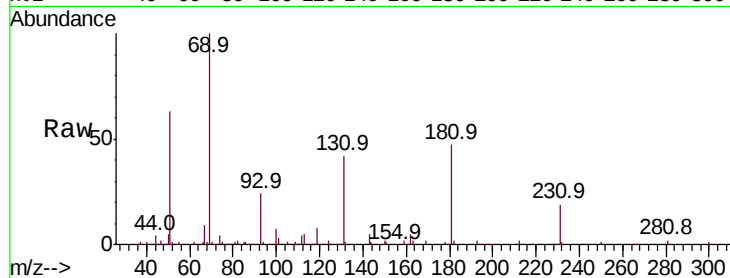




#3
Chlorodifluoromethane
Concen: 1.568 ppbv
RT: 3.00 min Scan# 20
Delta R.T. -0.01 min
Lab File: VL033952.D
Acq: 25 Jun 2019 1:16

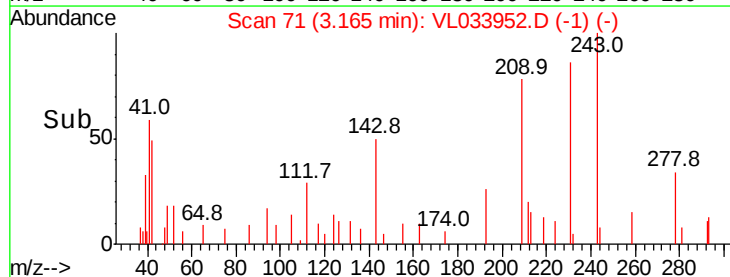
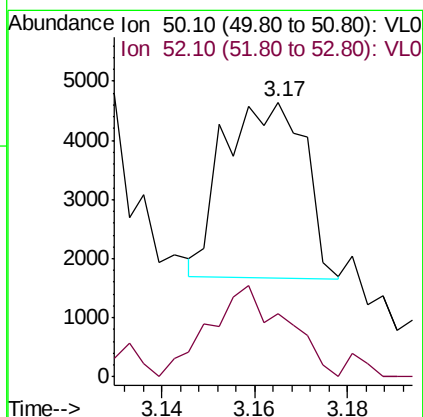
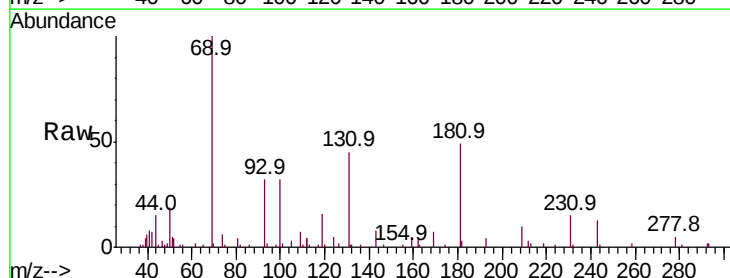
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1

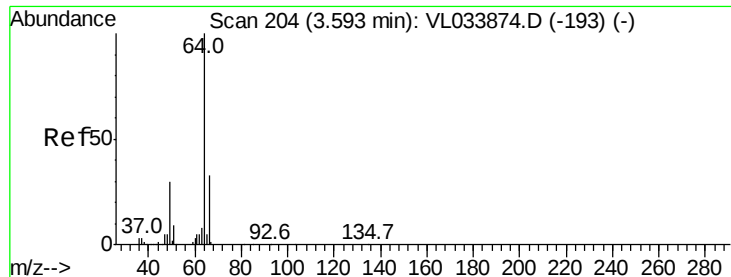
Tot Ion: 51 Resp: 164342
Ion Ratio Lower Upper
51 100
67 15.6 16.4 24.6#



#4
Chloromethane
Concen: 0.060 ppbv
RT: 3.17 min Scan# 71
Delta R.T. 0.00 min
Lab File: VL033952.D
Acq: 25 Jun 2019 1:16

Tgt Ion: 50 Resp: 3593
Ion Ratio Lower Upper
50 100
52 36.6 25.4 38.0





#7

Chloroethane

Concen: 0.135 ppbv

RT: 3.59 min Scan# 202

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

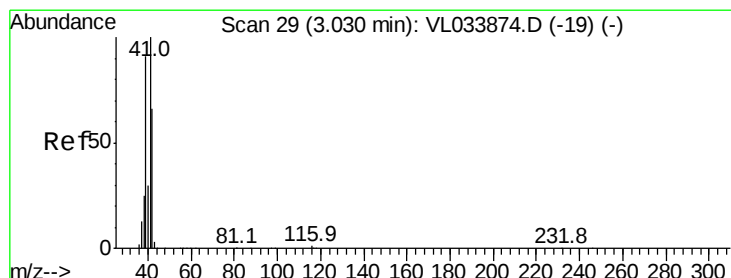
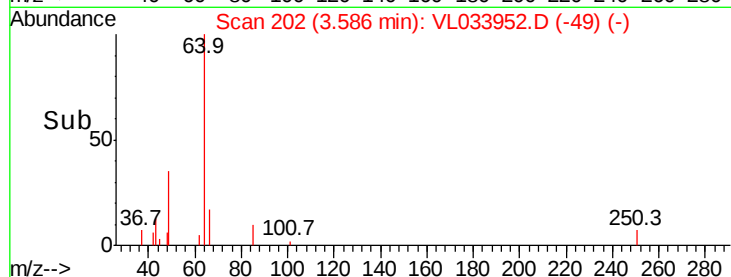
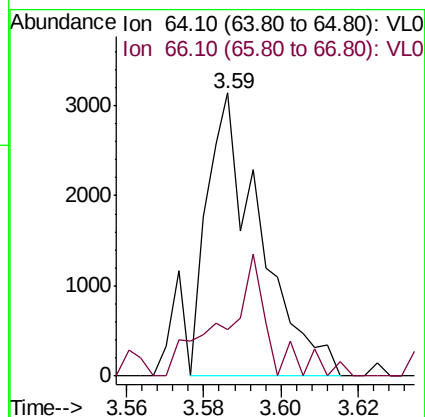
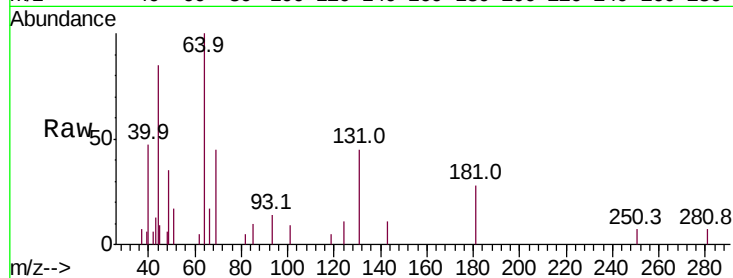
TZC-SSDS-AREA-D-1

Tot Ion: 64 Resp: 2971

Ion Ratio Lower Upper

64 100

66 16.6 26.7 40.1#



#9

Propene

Concen: 0.419 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033952.D

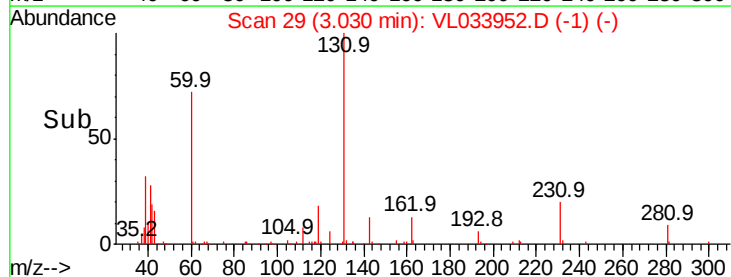
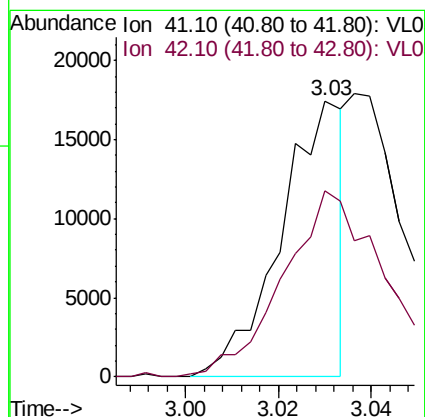
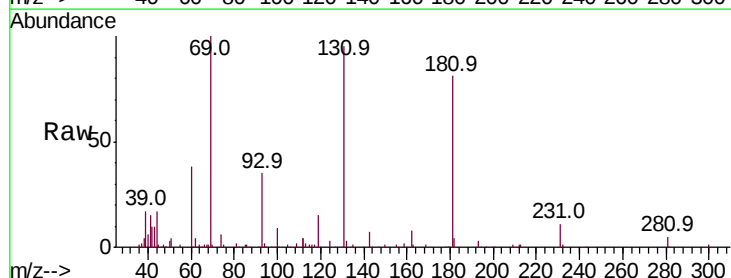
Acq: 25 Jun 2019 1:16

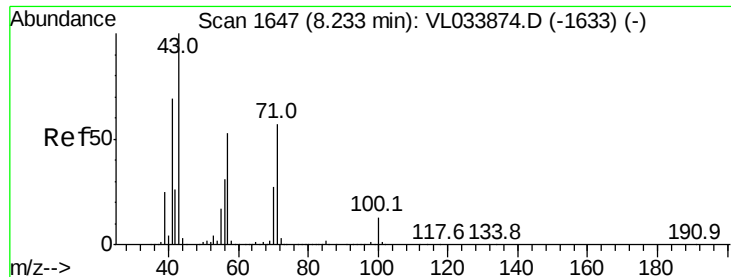
Tgt Ion: 41 Resp: 16421

Ion Ratio Lower Upper

41 100

42 111.5 56.3 84.5#

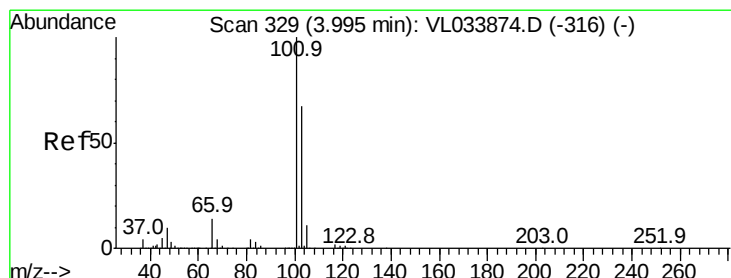
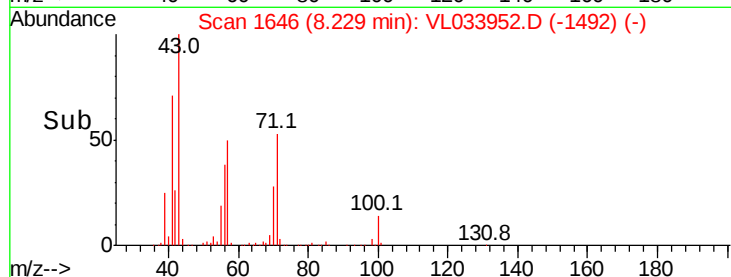
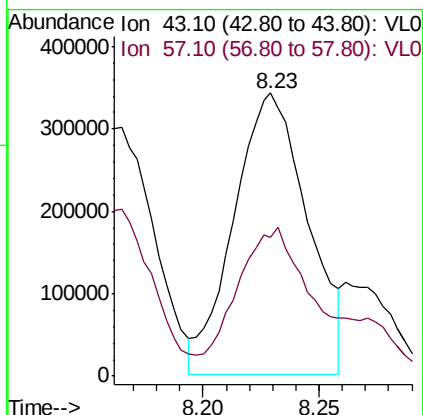
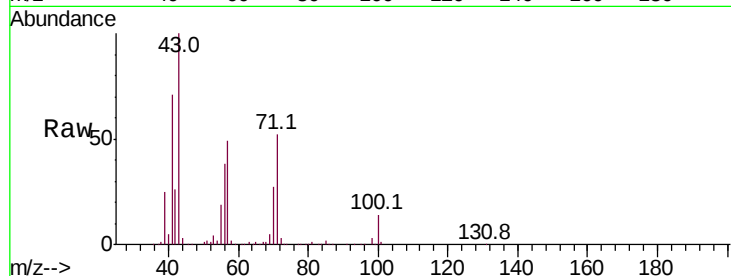




#10
 Heptane
 Concen: 7.619 ppbv
 RT: 8.23 min Scan# 1646
 Delta R.T. -0.00 min
 Lab File: VL033952.D
 Acq: 25 Jun 2019 1:16

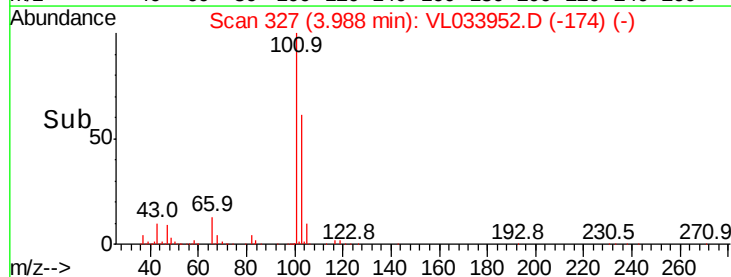
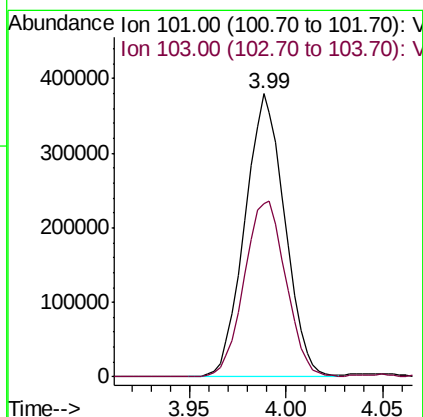
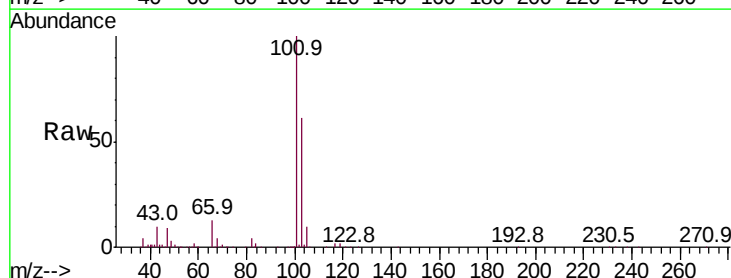
Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-D-1

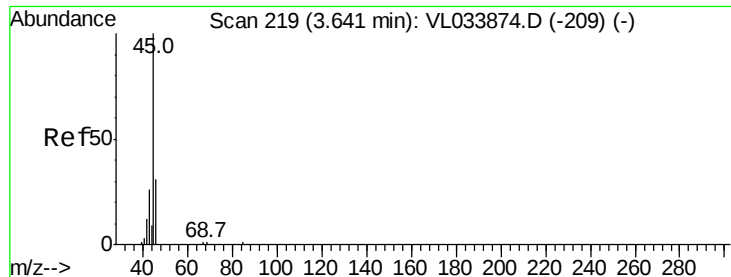
Tot Ion: 43 Resp: 755115
 Ion Ratio Lower Upper
 43 100
 57 67.4 41.7 62.5#



#11
 Trichlorofluoromethane
 Concen: 2.930 ppbv
 RT: 3.99 min Scan# 327
 Delta R.T. -0.01 min
 Lab File: VL033952.D
 Acq: 25 Jun 2019 1:16

Tgt Ion: 101 Resp: 546085
 Ion Ratio Lower Upper
 101 100
 103 61.3 53.6 80.4





#13

Ethanol

Concen: 11.353 ppbv

RT: 3.65 min Scan# 221

Delta R.T. 0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

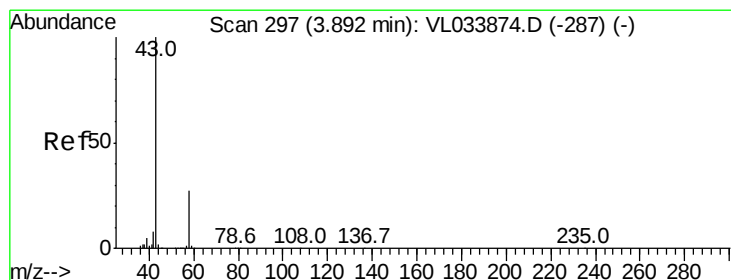
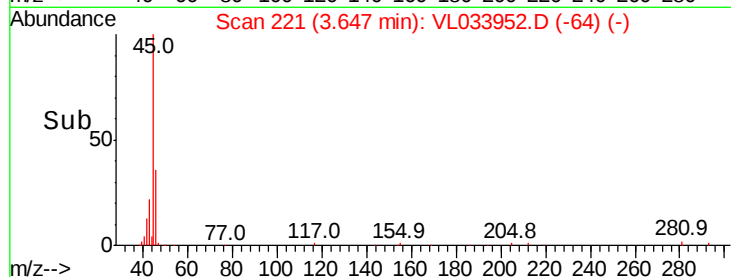
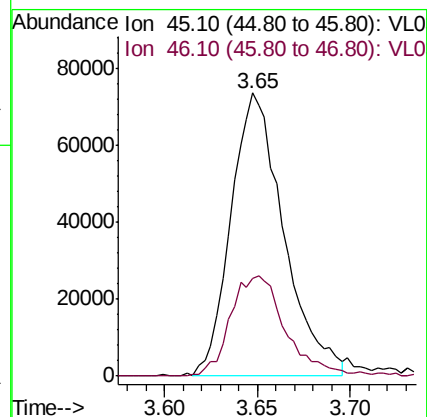
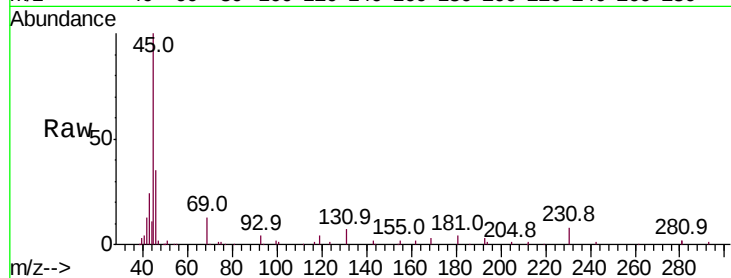
TZC-SSDS-AREA-D-1

Tot Ion: 45 Resp: 144837

Ion Ratio Lower Upper

45 100

46 37.8 15.3 61.1



#15

Acetone

Concen: 152.443 ppbv

RT: 3.89 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL033952.D

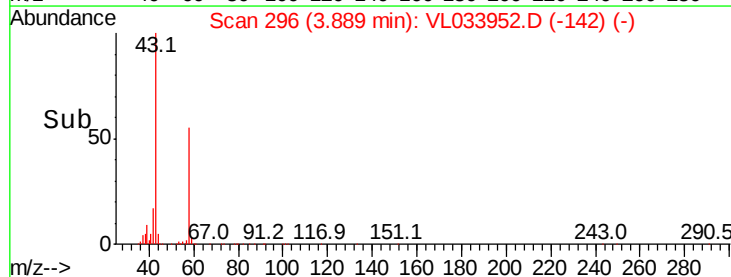
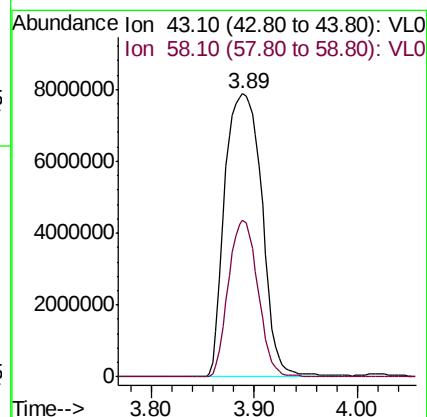
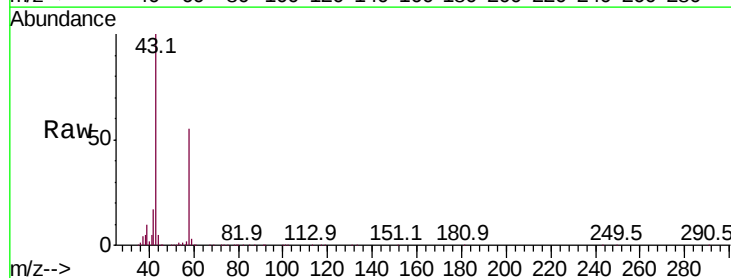
Acq: 25 Jun 2019 1:16

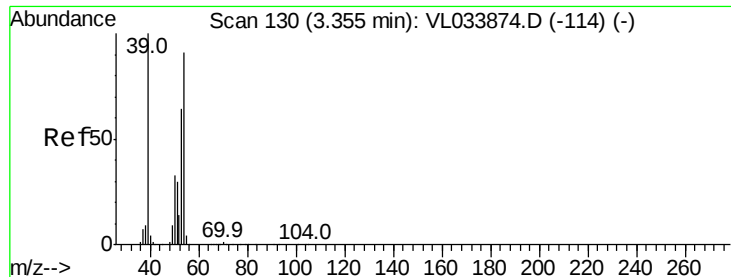
Tgt Ion: 43 Resp: 19791748

Ion Ratio Lower Upper

43 100

58 44.1 21.3 31.9#

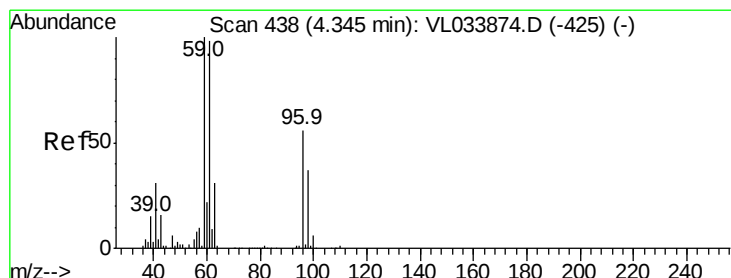
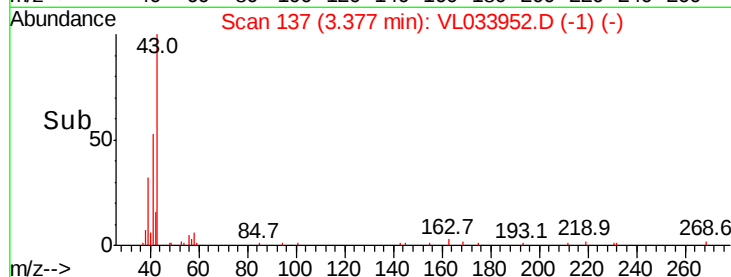
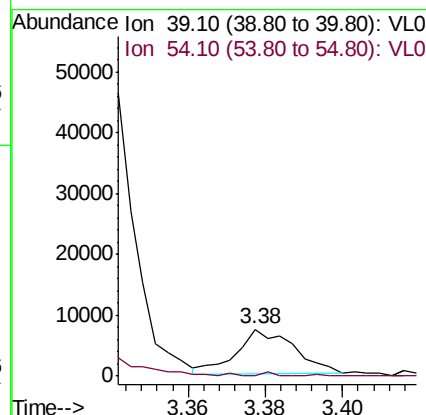
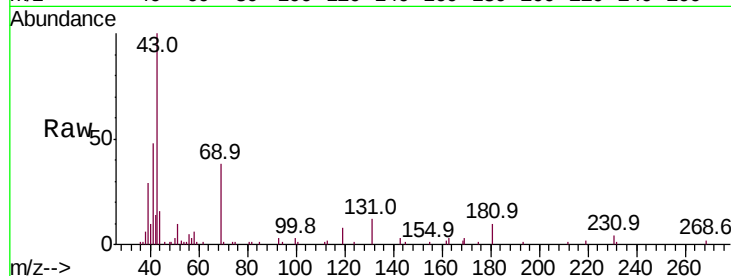




#16
1,3-Butadiene
Concen: 0.154 ppbv
RT: 3.38 min Scan# 137
Delta R.T. 0.02 min
Lab File: VL033952.D
Acq: 25 Jun 2019 1:16

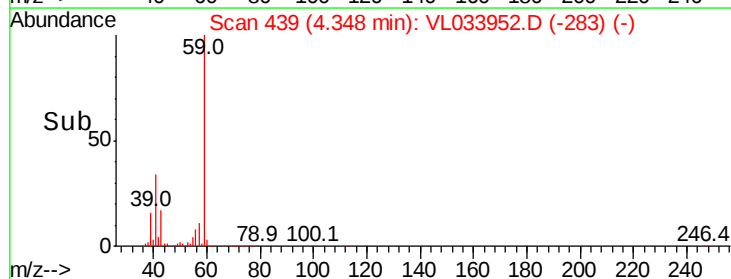
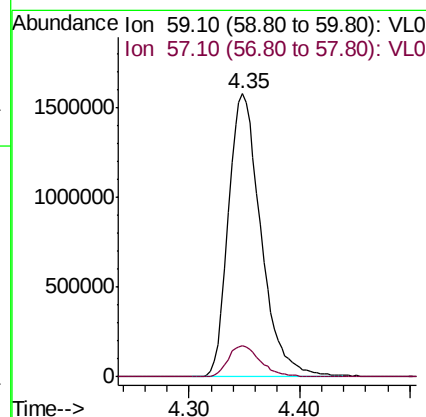
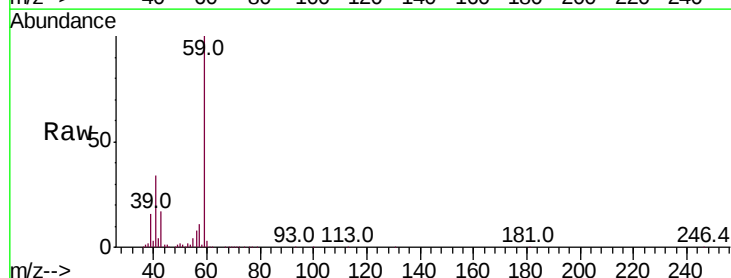
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1

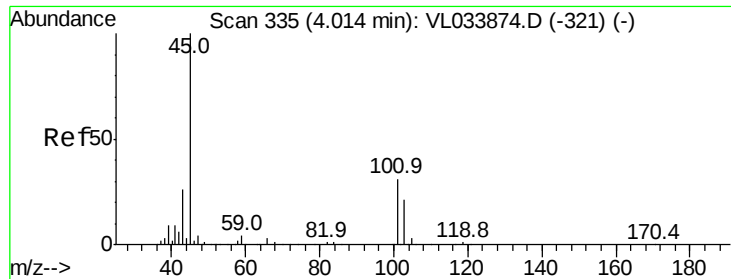
Tot Ion: 39 Resp: 7590
Ion Ratio Lower Upper
39 100
54 0.0 68.6 103.0#



#17
tert-Butyl alcohol
Concen: 31.758 ppbv
RT: 4.35 min Scan# 439
Delta R.T. 0.00 min
Lab File: VL033952.D
Acq: 25 Jun 2019 1:16

Tgt Ion: 59 Resp: 3223182
Ion Ratio Lower Upper
59 100
57 11.1 8.4 12.6





#19

Isopropyl Alcohol

Concen: 5.628 ppbv

RT: 4.02 min Scan# 337

Delta R.T. 0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

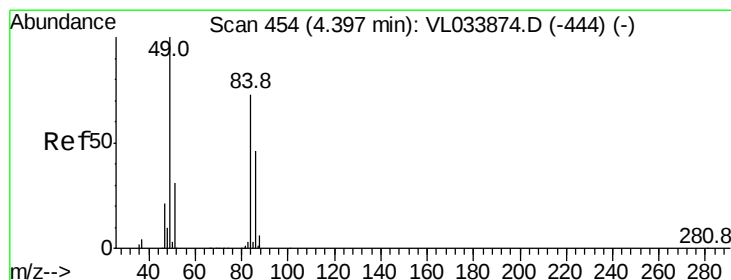
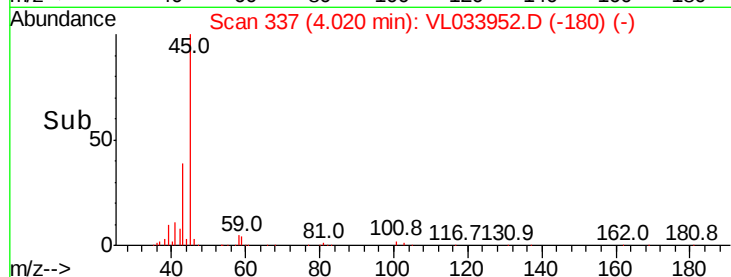
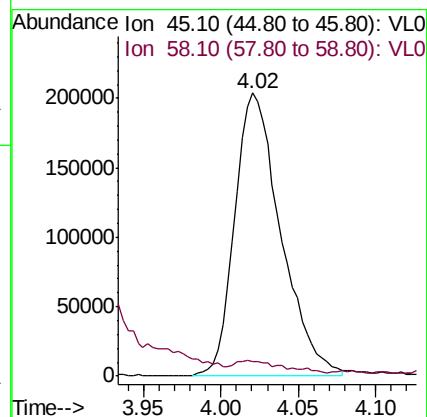
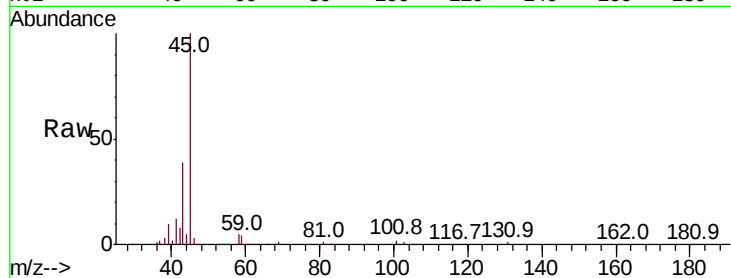
TZC-SSDS-AREA-D-1

Tot Ion: 45 Resp: 417395

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.6#



#20

Methylene Chloride

Concen: 0.841 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Tgt Ion: 84 Resp: 42593

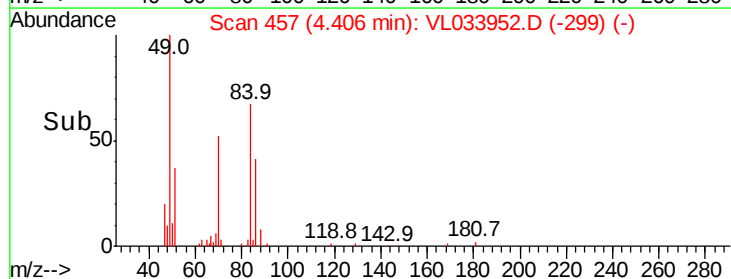
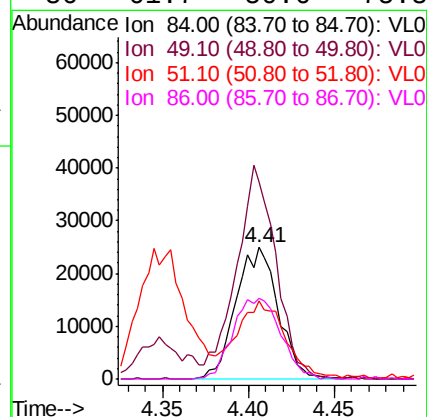
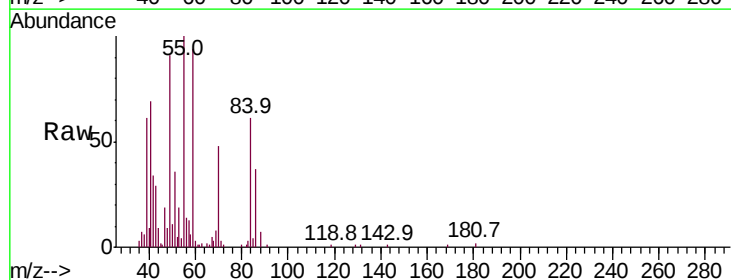
Ion Ratio Lower Upper

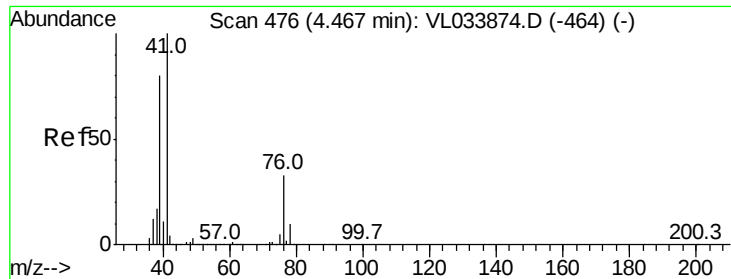
84 100

49 148.7 110.0 165.0

51 58.1 34.6 51.8#

86 61.7 50.6 75.8





#21

Allvl Chloride

Concen: 0.503 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.05 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-1

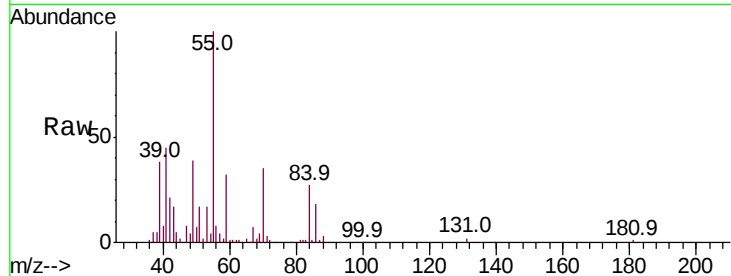
Tot Ion: 41 Resp: 37093

Ion Ratio Lower Upper

41 100

76 294.2 26.6 39.8#

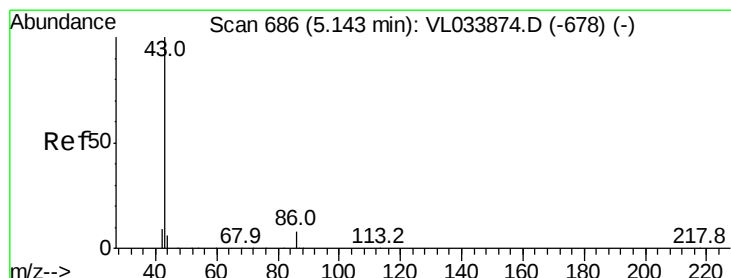
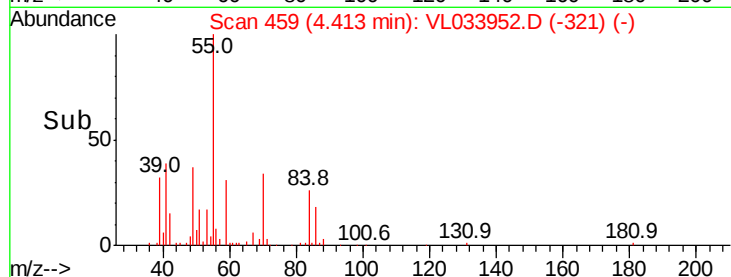
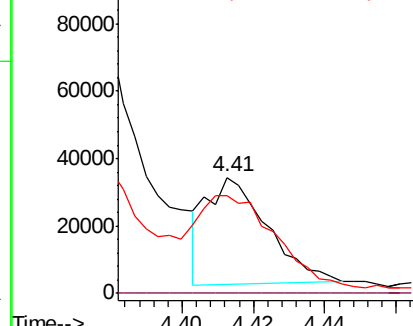
39 129.1 65.2 97.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 0.256 ppbv

RT: 5.14 min Scan# 686

Delta R.T. -0.00 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Tgt Ion: 43 Resp: 38635

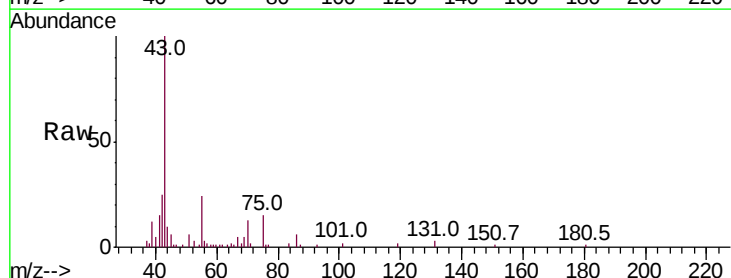
Ion Ratio Lower Upper

43 100

86 7.4 5.8 8.8

42 12.1 7.8 11.8#

44 7.1 4.2 6.4#

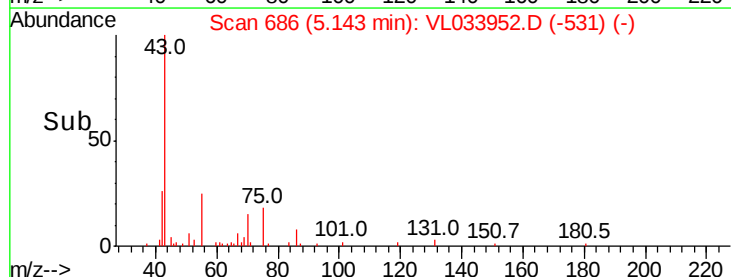
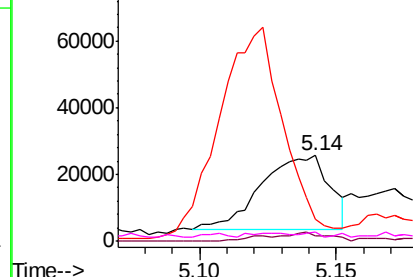


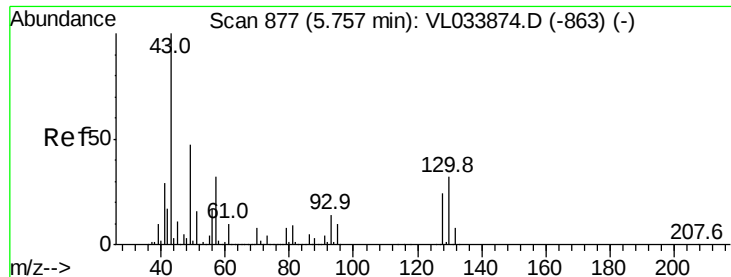
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0





#25

Ethyl Acetate

Concen: 0.485 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-1

Tot Ion: 43 Resp: 95960

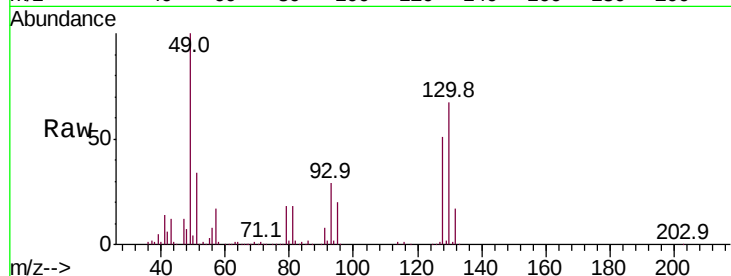
Ion Ratio Lower Upper

43 100

45 3.1 7.9 11.9#

61 1.4 7.8 11.6#

70 2.7 5.8 8.6#



Abundance

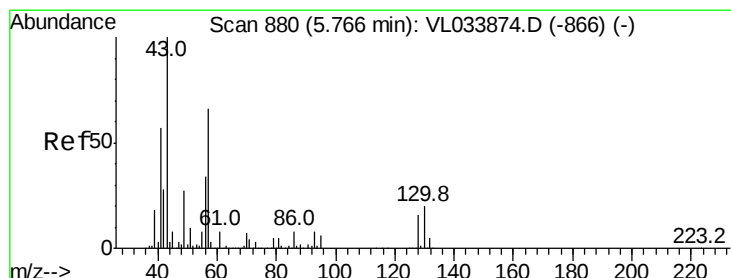
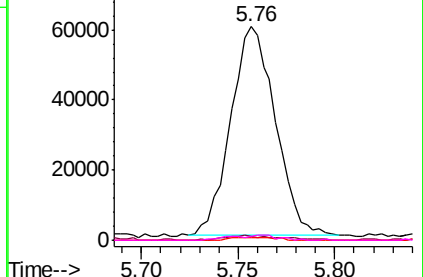
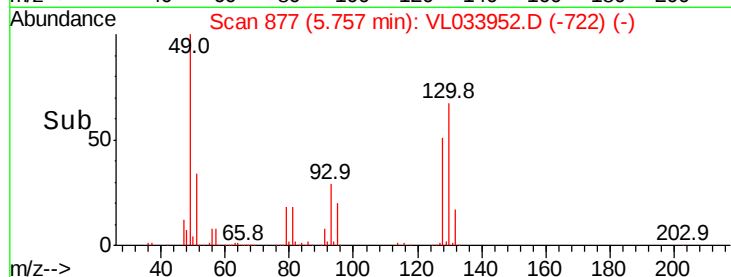
Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

Time-->



#26

Hexane

Concen: 1.443 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Tgt Ion: 57 Resp: 129925

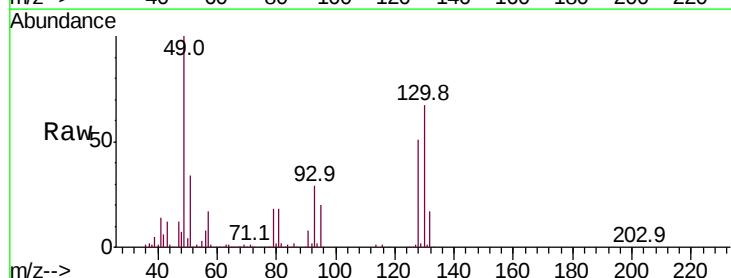
Ion Ratio Lower Upper

57 100

41 93.6 71.4 107.2

43 76.7 183.7 275.5#

56 55.2 42.7 64.1



Abundance

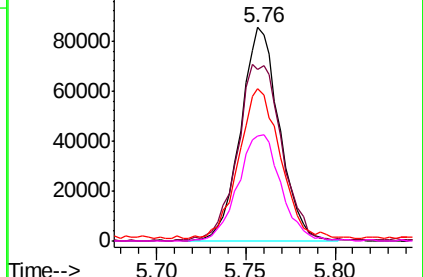
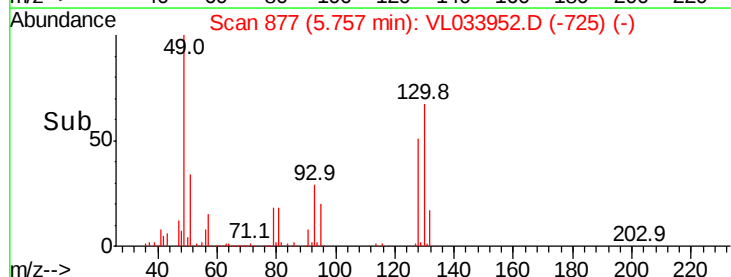
Ion 57.10 (56.80 to 57.80): VL0

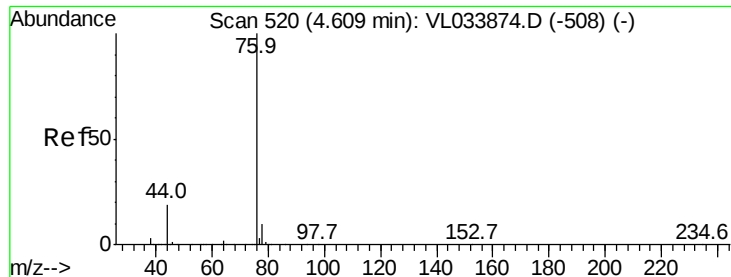
Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

Time-->

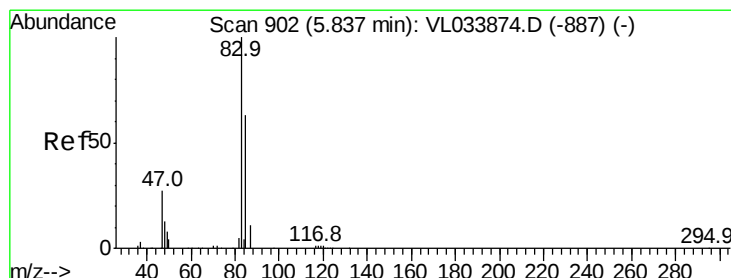
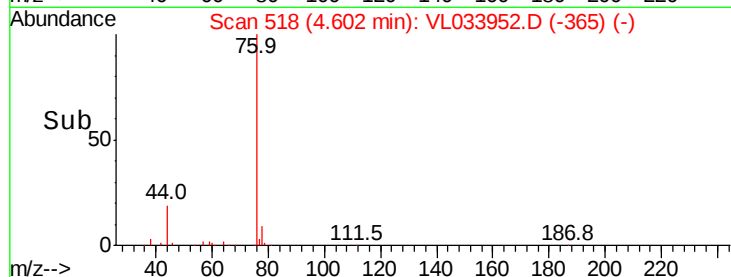
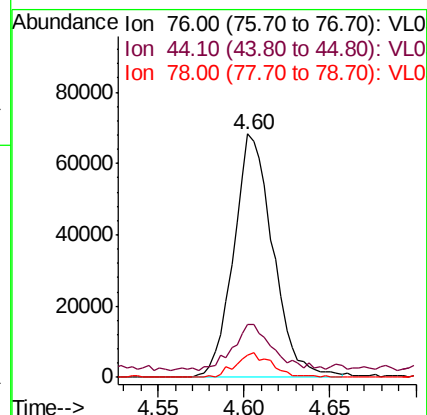
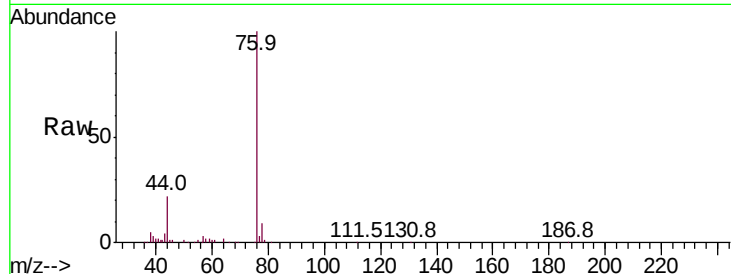




#27
Carbon Disulfide
Concen: 0.870 ppbv
RT: 4.60 min Scan# 518
Delta R.T. -0.01 min
Lab File: VL033952.D
Acq: 25 Jun 2019 1:16

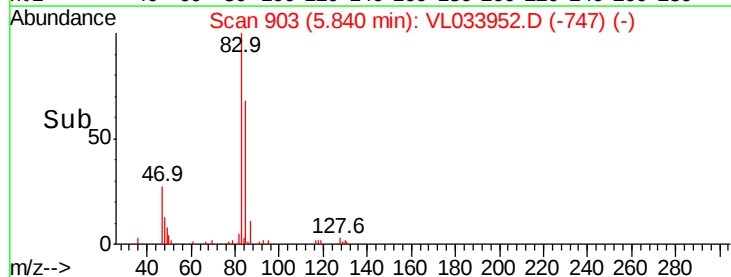
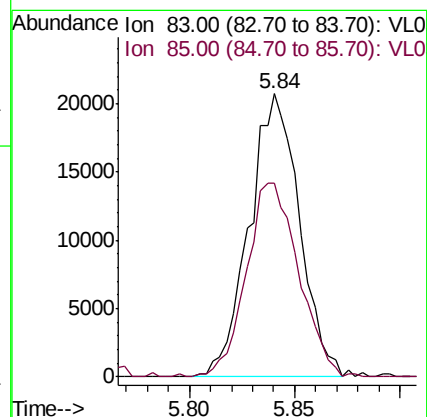
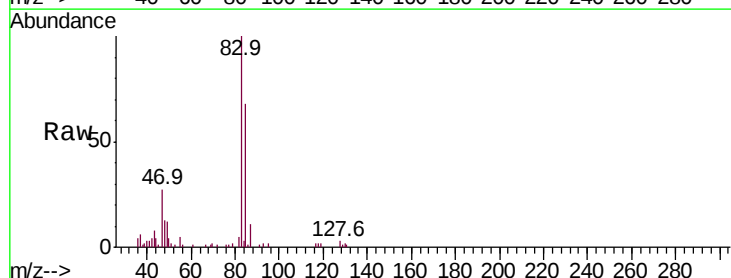
Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1

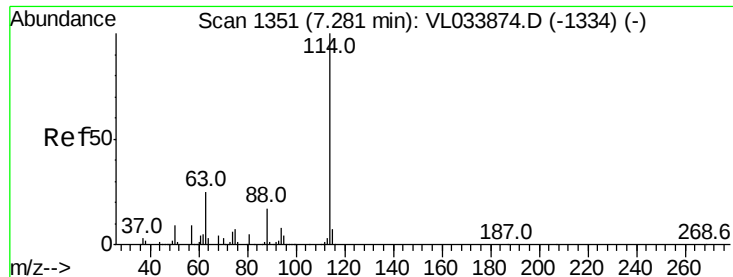
Tot Ion: 76 Resp: 108846
Ion Ratio Lower Upper
76 100
44 21.0 14.4 21.6
78 9.3 7.5 11.3



#29
Chloroform
Concen: 0.221 ppbv
RT: 5.84 min Scan# 903
Delta R.T. 0.00 min
Lab File: VL033952.D
Acq: 25 Jun 2019 1:16

Tgt Ion: 83 Resp: 34137
Ion Ratio Lower Upper
83 100
85 68.4 50.5 75.7

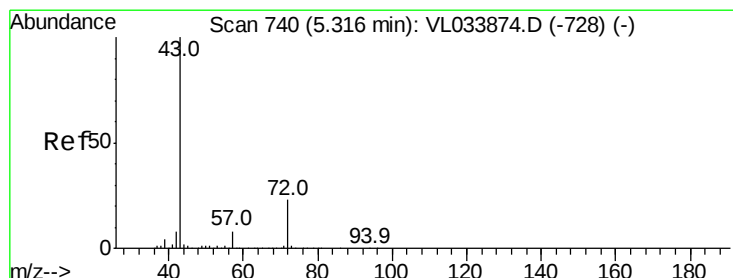
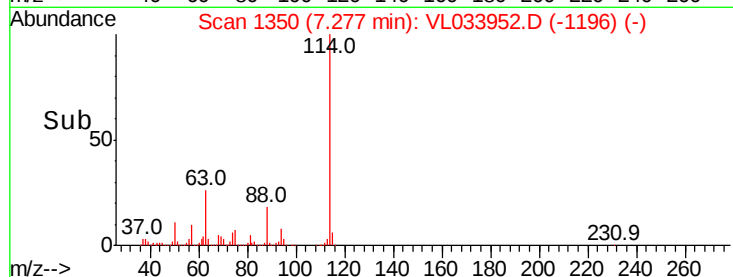
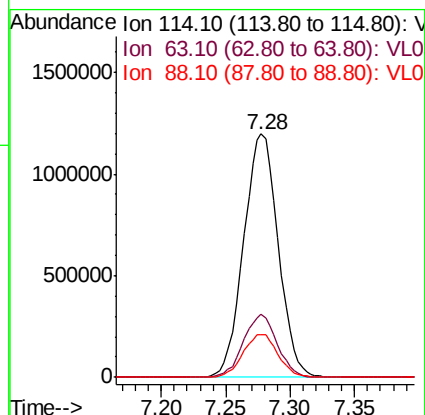
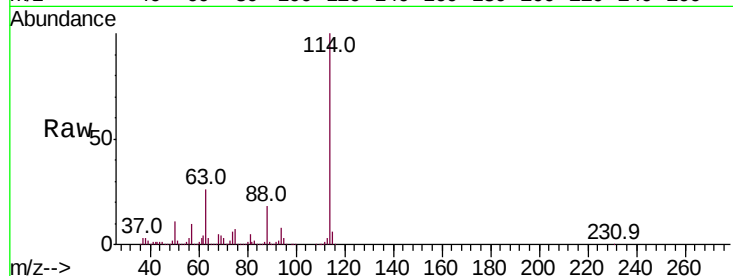




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1350
 Delta R.T. -0.00 min
 Lab File: VL033952.D
 Acq: 25 Jun 2019 1:16

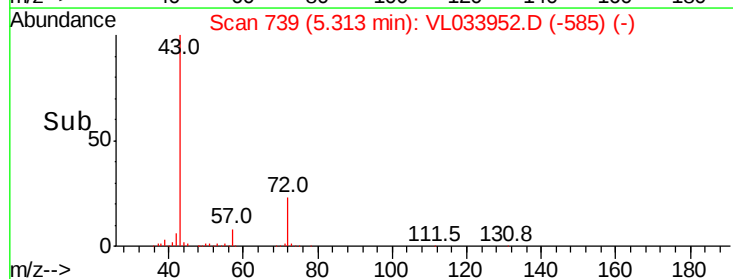
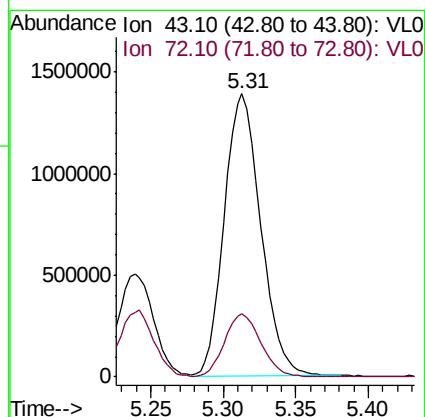
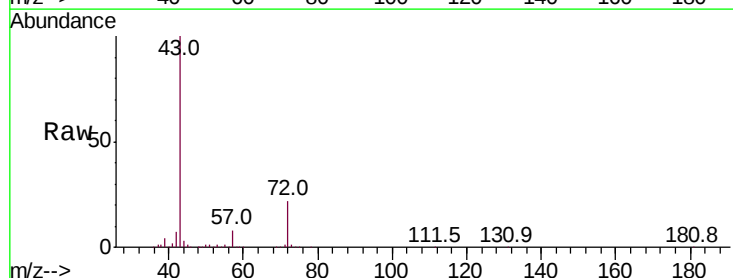
Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-D-1

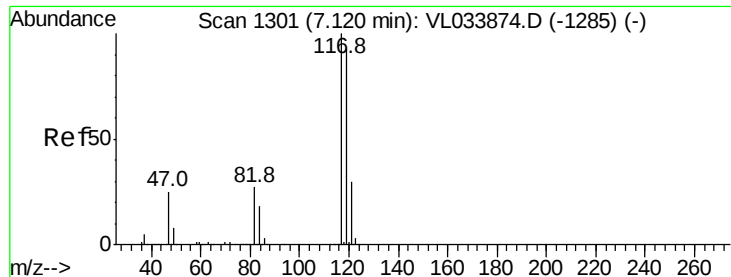
Tot Ion:114 Resp: 2235509
 Ion Ratio Lower Upper
 114 100
 63 25.2 21.1 31.7
 88 17.8 14.2 21.4



#34
 2-Butanone
 Concen: 19.159 ppbv
 RT: 5.31 min Scan# 739
 Delta R.T. -0.00 min
 Lab File: VL033952.D
 Acq: 25 Jun 2019 1:16

Tgt Ion: 43 Resp: 2416236
 Ion Ratio Lower Upper
 43 100
 72 22.7 17.9 26.9





#35

Carbon Tetrachloride

Concen: 0.046 ppbv

RT: 7.11 min Scan# 1299

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-1

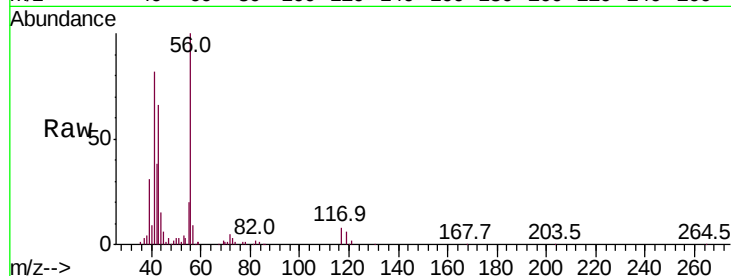
Tot Ion:117 Resp: 7937

Ion Ratio Lower Upper

117 100

119 67.8 74.6 111.8#

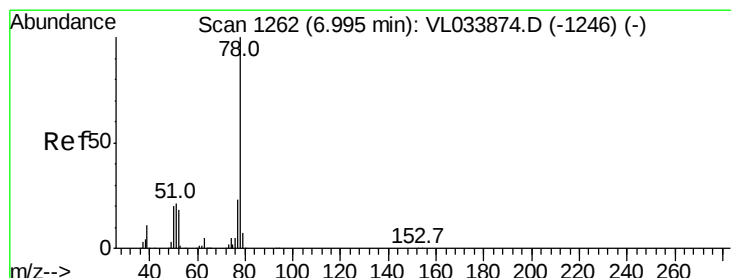
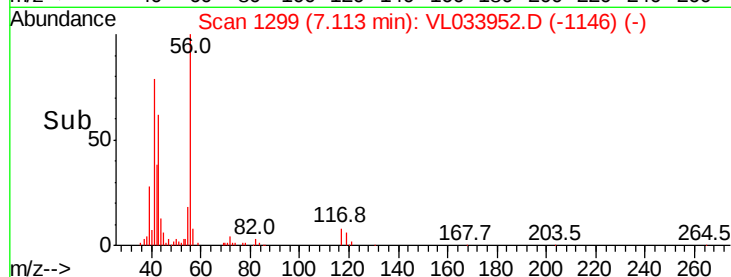
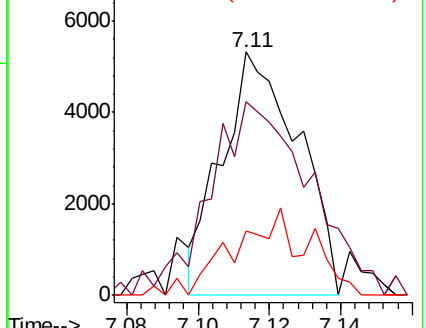
121 26.2 24.0 36.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 11.319 ppbv

RT: 6.99 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

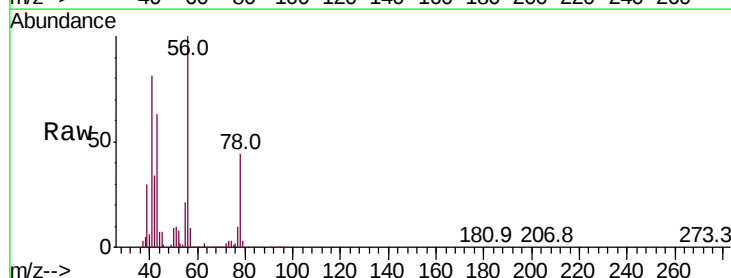
Tgt Ion: 78 Resp: 1932900

Ion Ratio Lower Upper

78 100

77 22.2 18.2 27.2

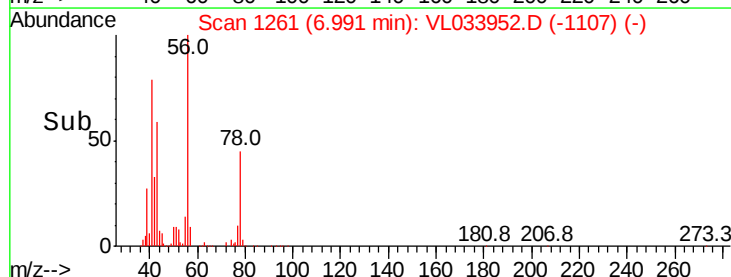
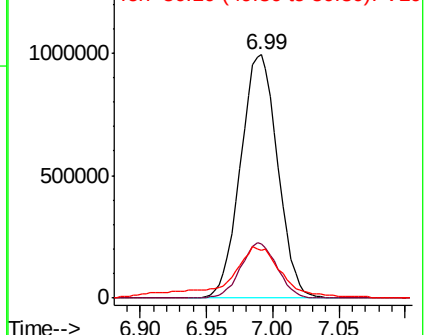
50 18.9 15.9 23.9

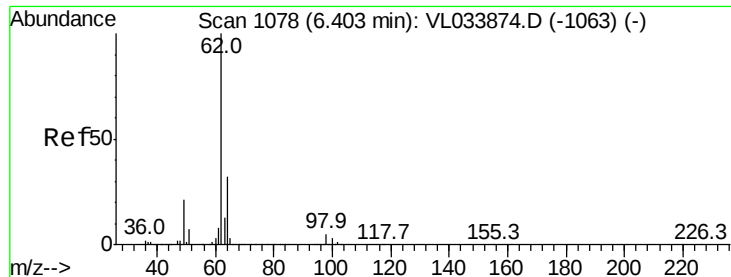


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.042 ppbv

RT: 6.40 min Scan# 1077

Delta R.T. -0.00 min

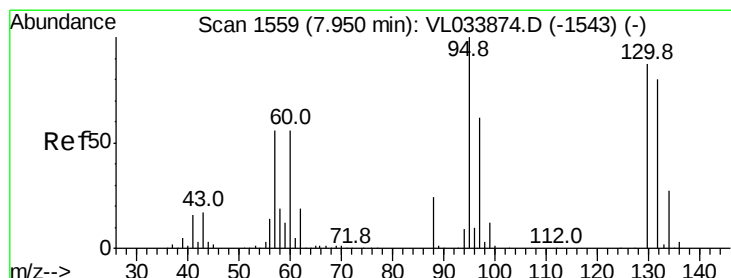
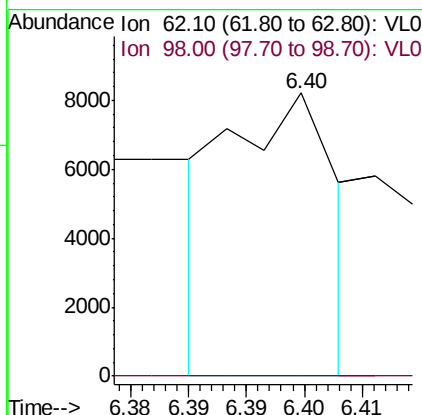
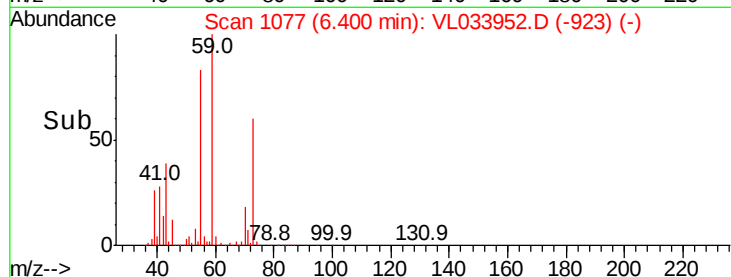
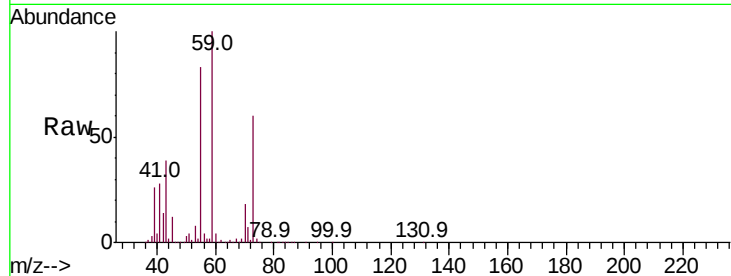
Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :
MSVOA_L
ClientSampleId :
TZC-SSDS-AREA-D-1

Tot Ion: 62 Resp: 5318

Ion	Ratio	Lower	Upper
62	100		
98	0.0	4.0	6.0#



#38

Trichloroethene

Concen: 0.409 ppbv

RT: 7.95 min Scan# 1558

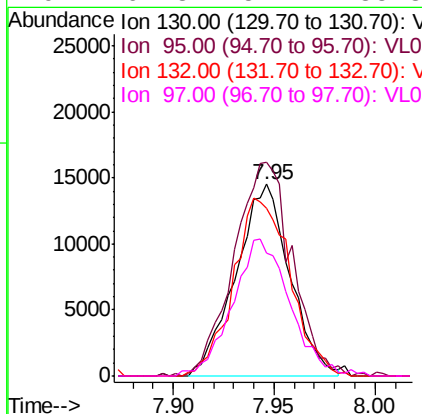
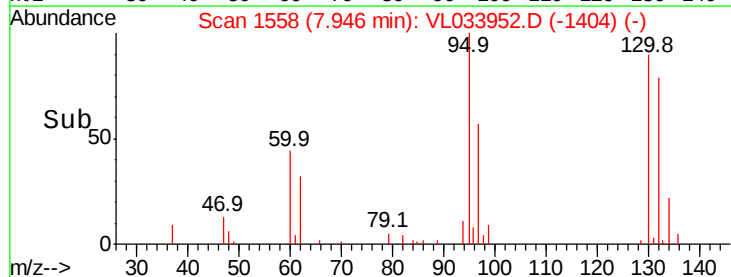
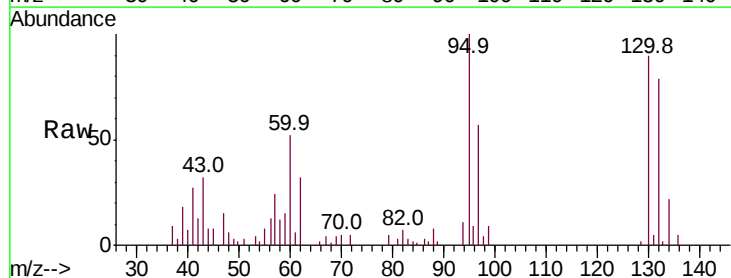
Delta R.T. -0.00 min

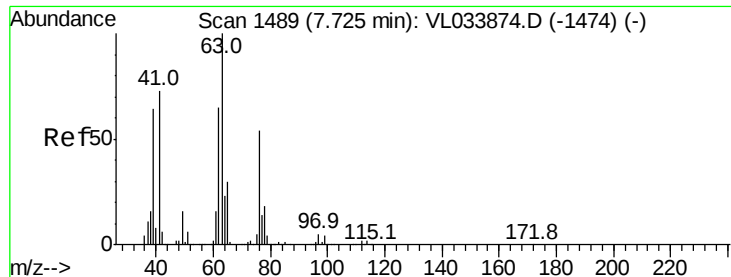
Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Tgt Ion: 130 Resp: 27199

Ion	Ratio	Lower	Upper
130	100		
95	110.2	92.0	138.0
132	88.8	73.8	110.8
97	61.8	57.2	85.8





#39

1,2-Dichloropropane

Concen: 8.536 ppbv

RT: 7.28 min Scan# 1350

Delta R.T. -0.45 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-1

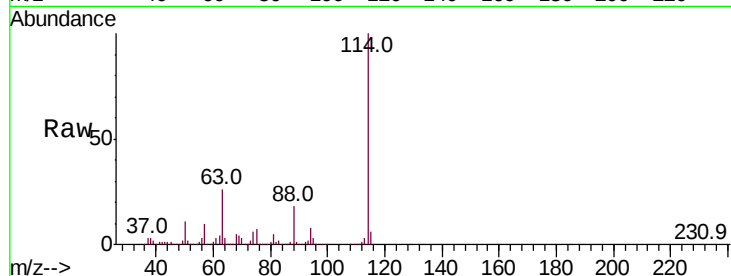
Tot Ion: 63 Resp: 562554

Ion Ratio Lower Upper

63 100

41 0.4 58.7 88.1#

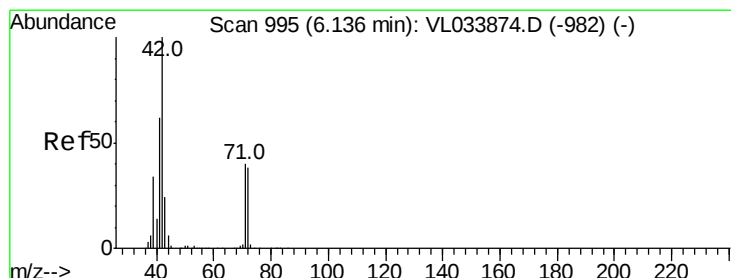
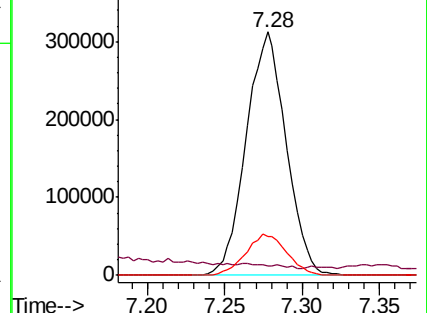
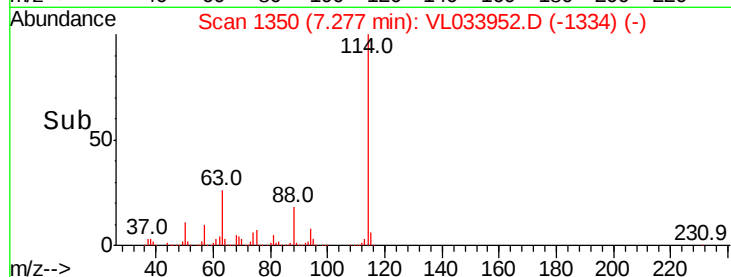
62 16.1 51.9 77.9#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 0.157 ppbv

RT: 6.10 min Scan# 984

Delta R.T. -0.04 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

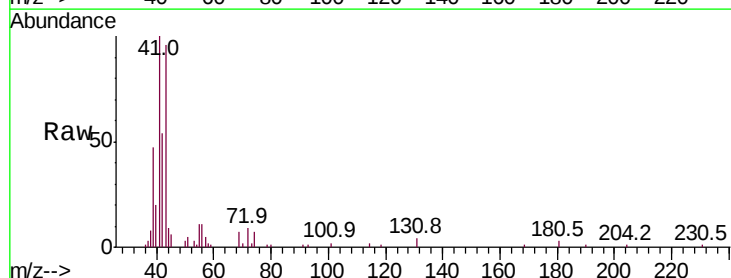
Tgt Ion: 42 Resp: 10050

Ion Ratio Lower Upper

42 100

72 34.0 32.2 48.4

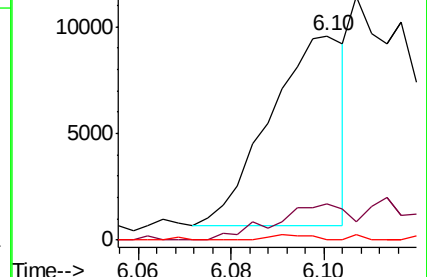
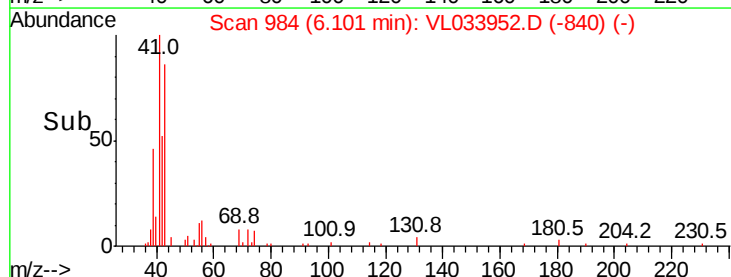
71 0.0 31.7 47.5#

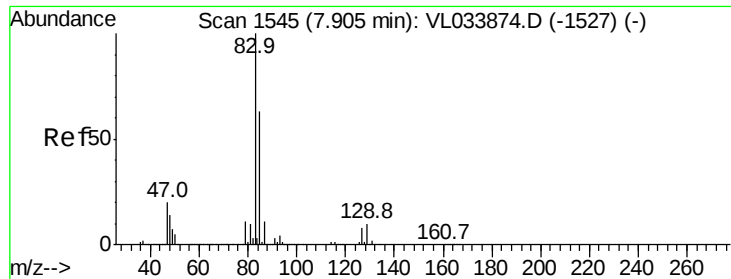


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 1.123 ppbv

RT: 8.16 min Scan# 1626

Delta R.T. 0.26 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-1

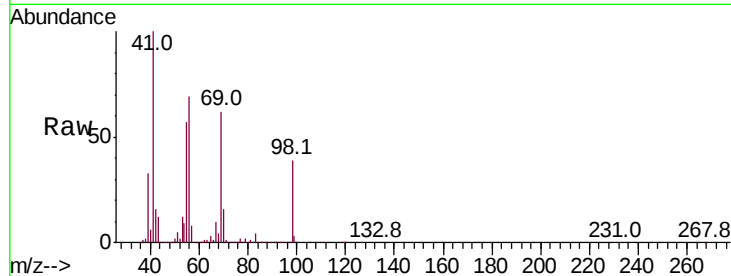
Tot Ion: 83 Resp: 189466

Ion Ratio Lower Upper

83 100

85 0.1 50.2 75.2#

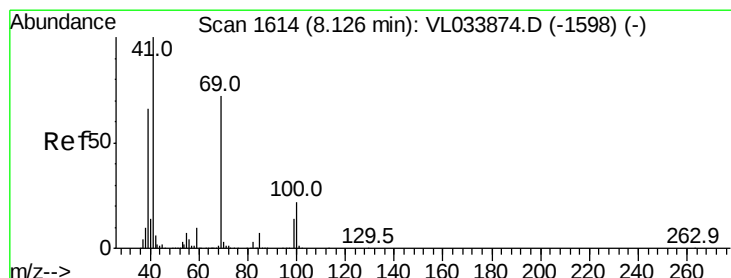
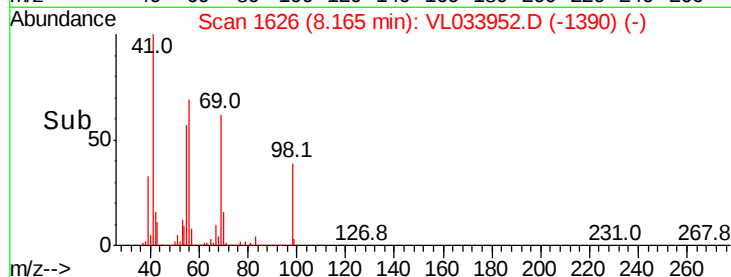
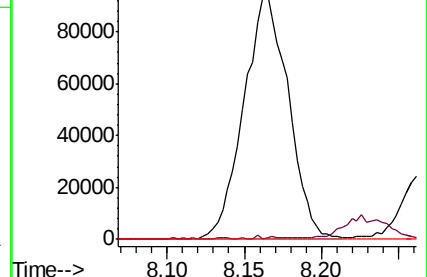
127 0.2 6.5 9.7#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 53.610 ppbv

RT: 8.16 min Scan# 1626

Delta R.T. 0.04 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

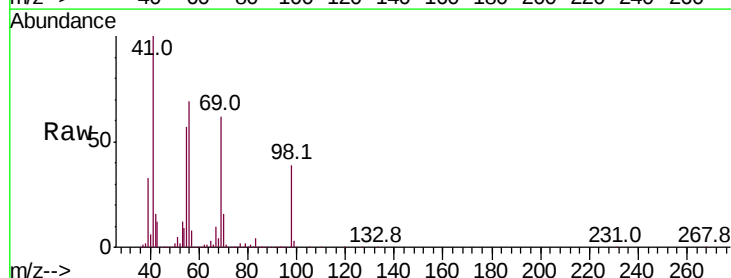
Tgt Ion: 69 Resp: 3423908

Ion Ratio Lower Upper

69 100

41 168.4 114.3 171.5

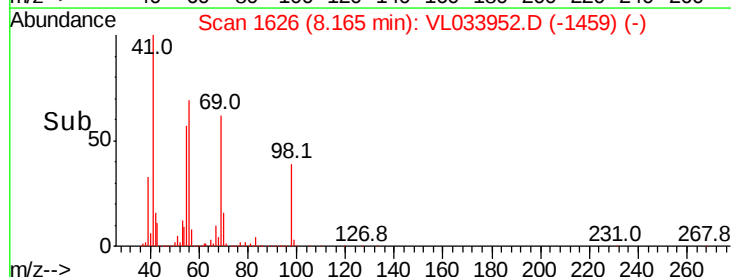
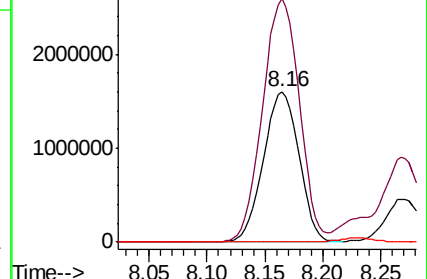
100 0.2 24.8 37.2#

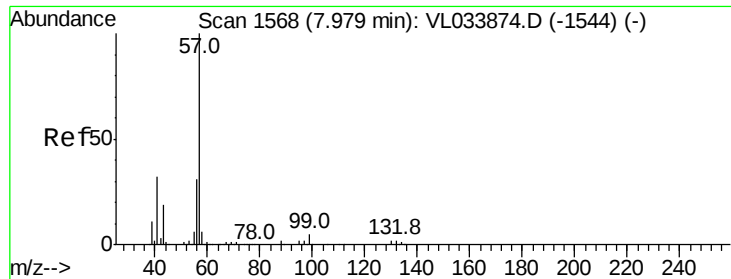


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.088 ppbv

RT: 7.97 min Scan# 1566

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-1

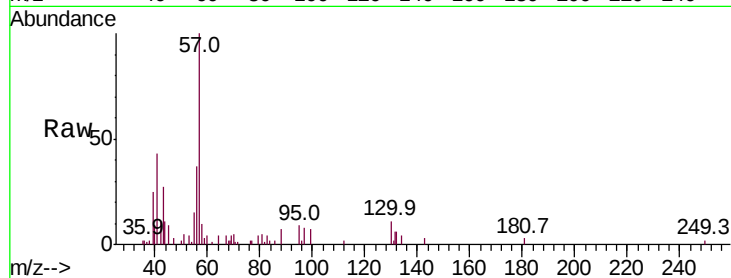
Tot Ion: 57 Resp: 26641

Ion Ratio Lower Upper

57 100

41 0.0 26.1 39.1#

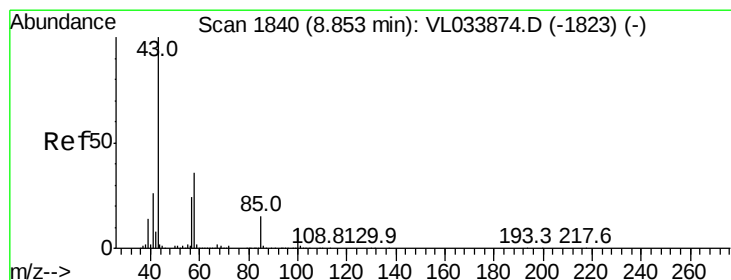
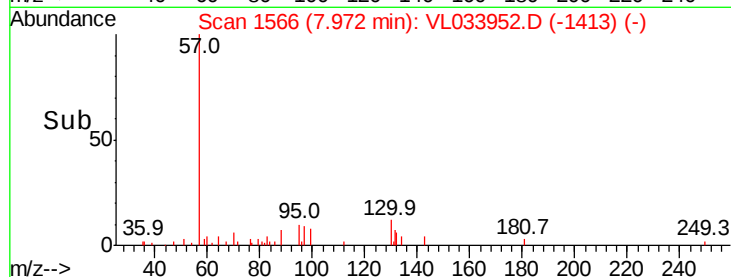
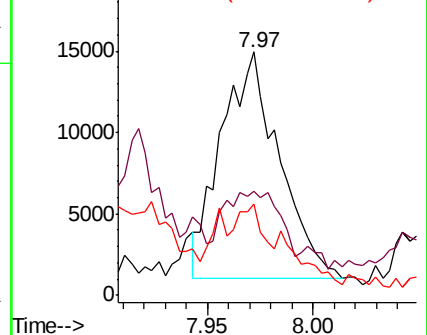
56 0.0 24.6 36.8#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#50

4-Methyl-2-Pentanone

Concen: 0.051 ppbv

RT: 8.86 min Scan# 1843

Delta R.T. 0.01 min

Lab File: VL033952.D

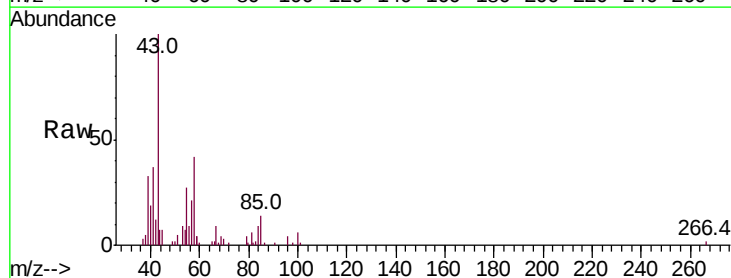
Acq: 25 Jun 2019 1:16

Tgt Ion: 43 Resp: 9582

Ion Ratio Lower Upper

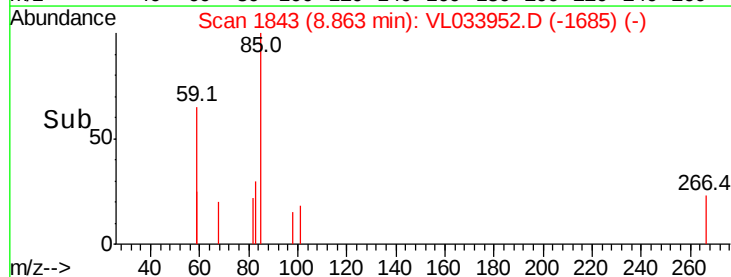
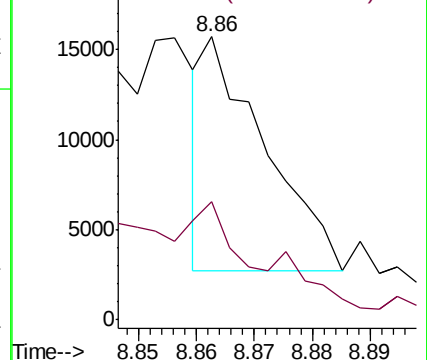
43 100

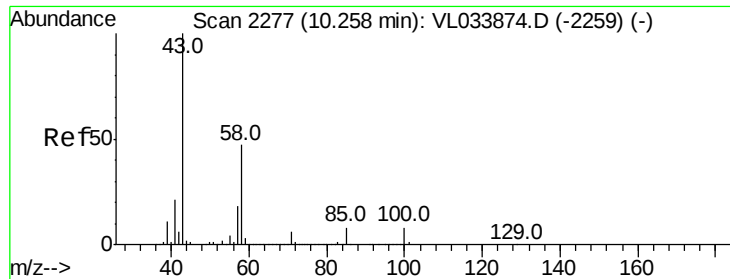
58 144.2 28.6 42.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.095 ppbv

RT: 10.27 min Scan# 2282

Delta R.T. 0.02 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-1

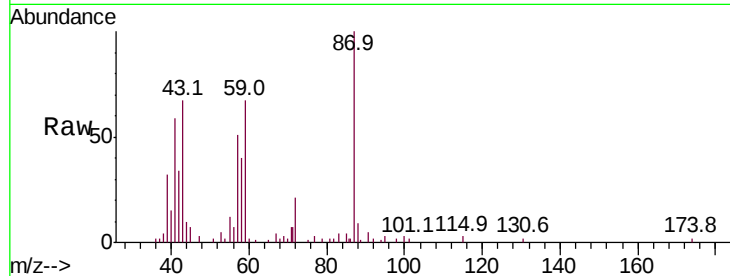
Tot Ion: 43 Resp: 13916

Ion Ratio Lower Upper

43 100

58 0.0 38.2 57.4#

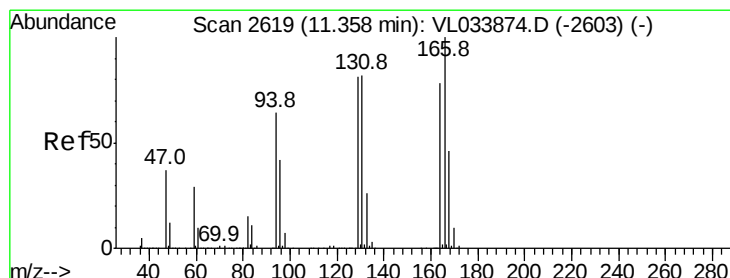
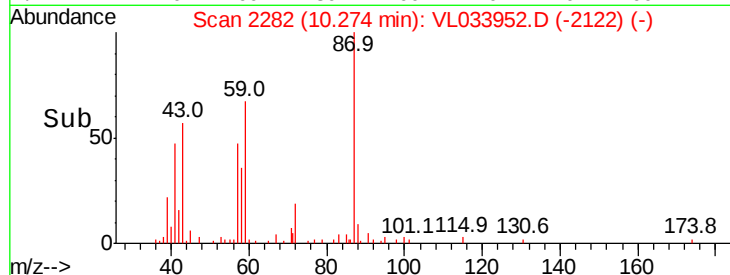
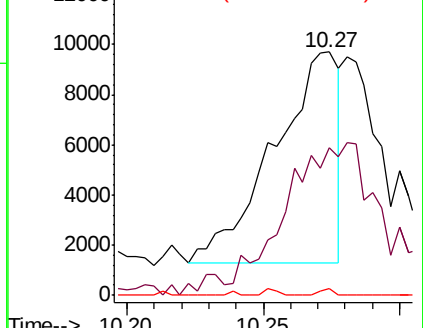
98 1.5 0.2 0.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 2.791 ppbv

RT: 11.35 min Scan# 2616

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Tgt Ion: 164 Resp: 167701

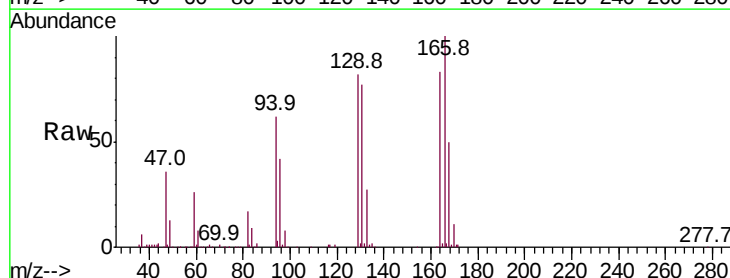
Ion Ratio Lower Upper

164 100

166 120.3 103.1 154.7

129 98.7 83.9 125.9

131 93.0 85.1 127.7

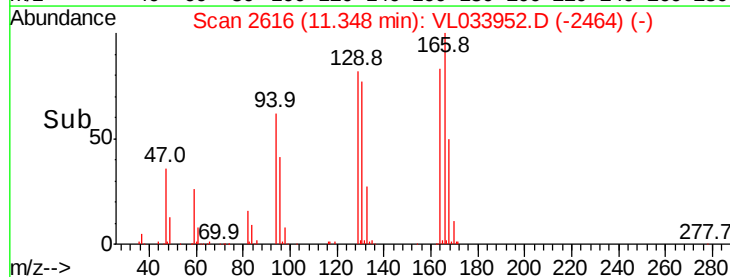
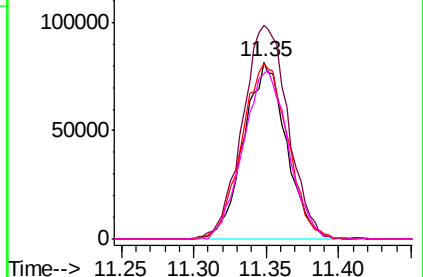


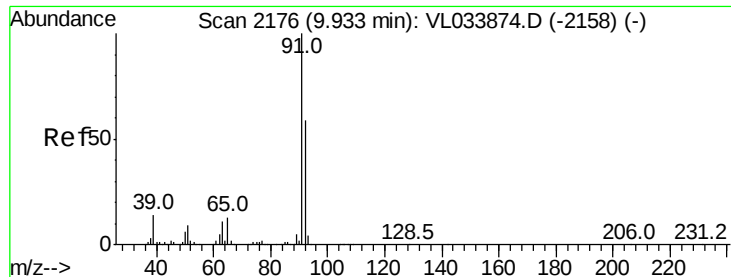
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 14.191 ppbv

RT: 9.92 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

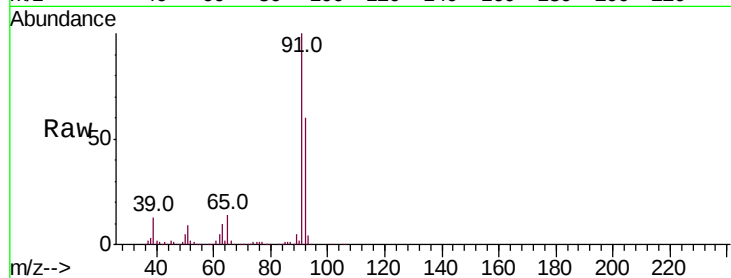
TZC-SSDS-AREA-D-1

Tot Ion: 91 Resp: 2681810

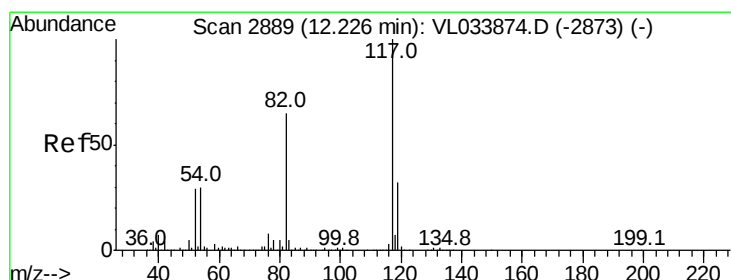
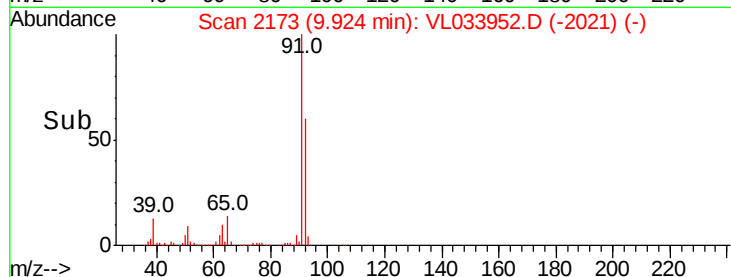
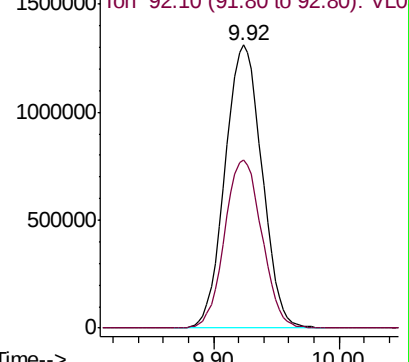
Ion Ratio Lower Upper

91 100

92 59.9 47.0 70.6



Abundance Ion 91.10 (90.80 to 91.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.22 min Scan# 2886

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

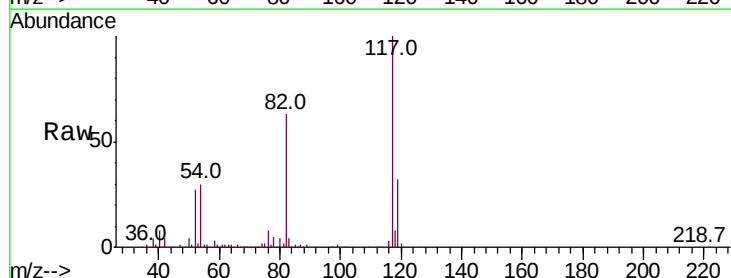
Tgt Ion: 117 Resp: 2240413

Ion Ratio Lower Upper

117 100

82 65.1 50.2 75.2

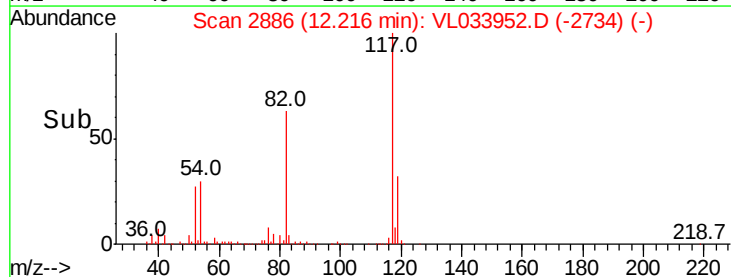
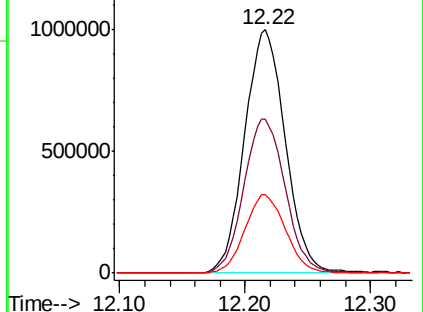
119 32.5 24.8 37.2

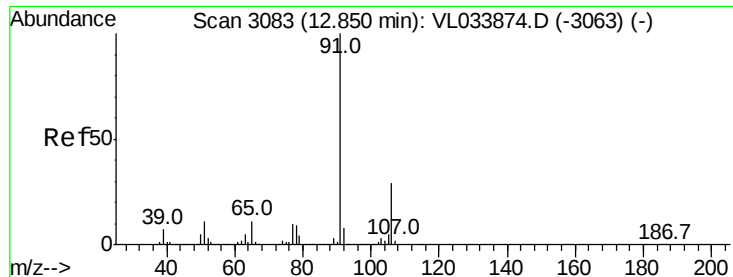


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 49.296 ppbv

RT: 12.84 min Scan# 3081

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

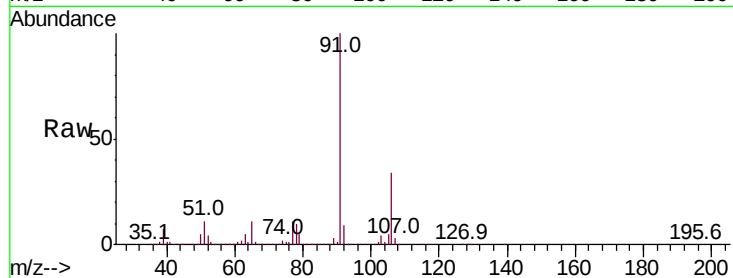
TZC-SSDS-AREA-D-1

Tot Ion: 91 Resp:12451876

Ion Ratio Lower Upper

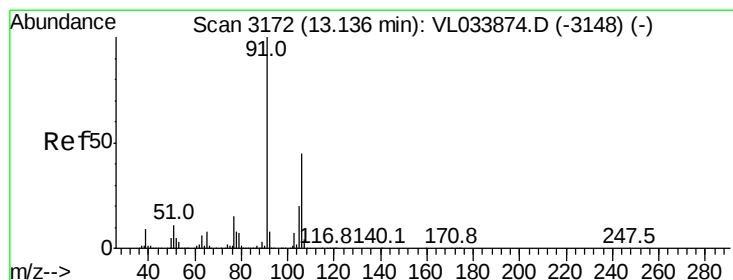
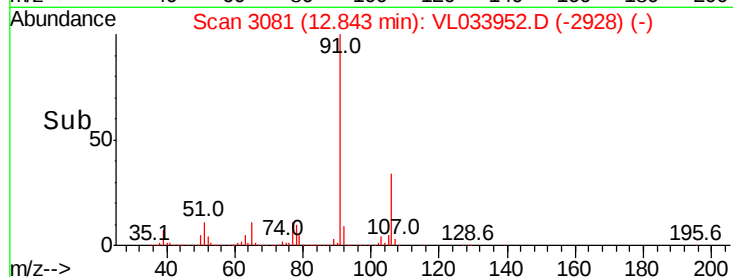
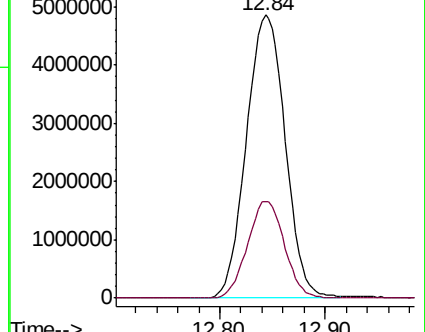
91 100

106 34.0 23.0 34.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 120.580 ppbv

RT: 13.11 min Scan# 3165

Delta R.T. -0.02 min

Lab File: VL033952.D

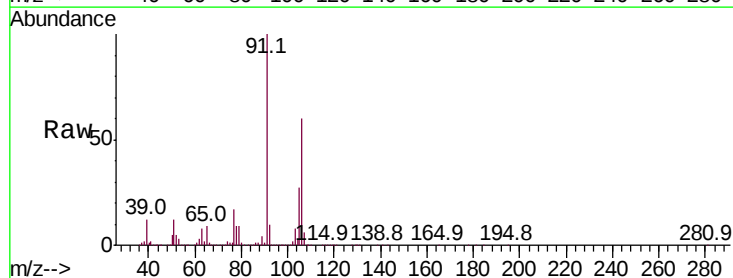
Acq: 25 Jun 2019 1:16

Tgt Ion: 91 Resp:27697221

Ion Ratio Lower Upper

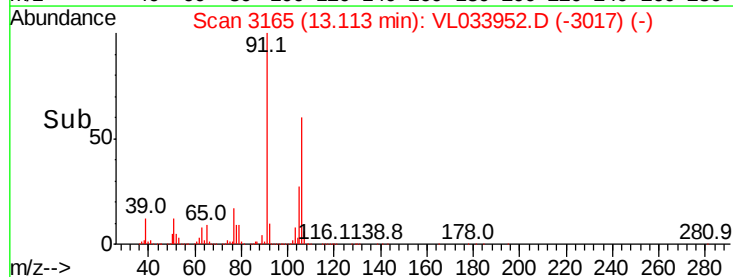
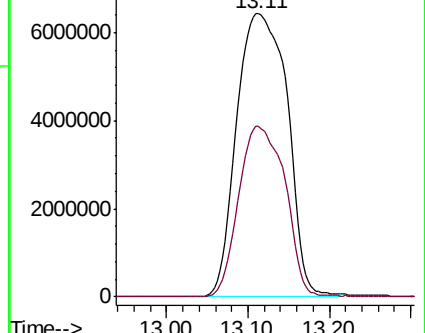
91 100

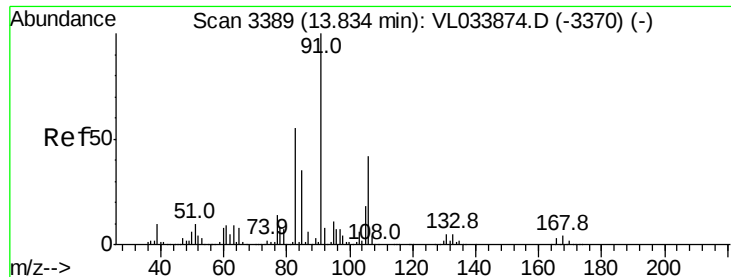
106 55.6 35.8 53.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#60

o-Xylene

Concen: 61.588 ppbv

RT: 13.83 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

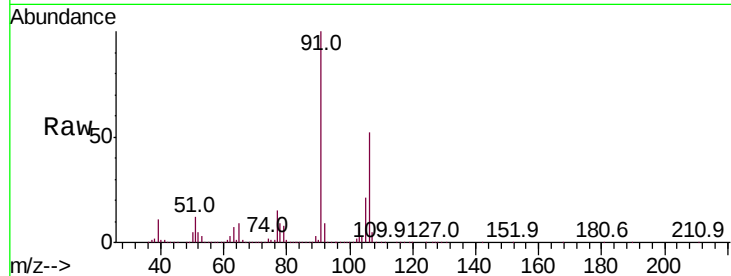
TZC-SSDS-AREA-D-1

Tot Ion: 91 Resp:14606422

Ion Ratio Lower Upper

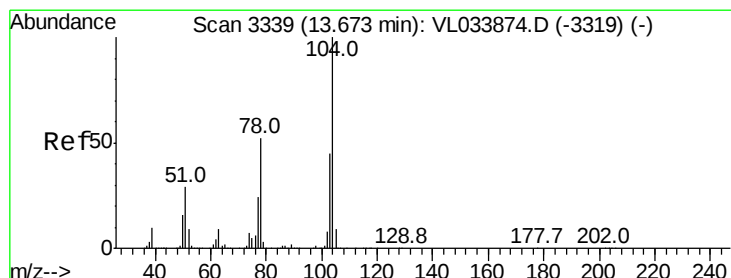
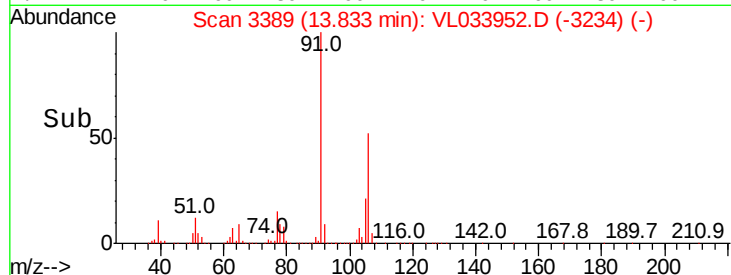
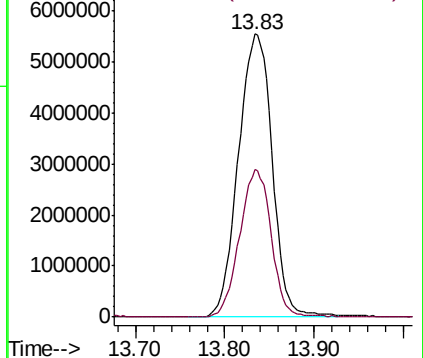
91 100

106 49.1 21.7 65.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#61

Styrene

Concen: 108.303 ppbv

RT: 13.68 min Scan# 3340

Delta R.T. 0.00 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

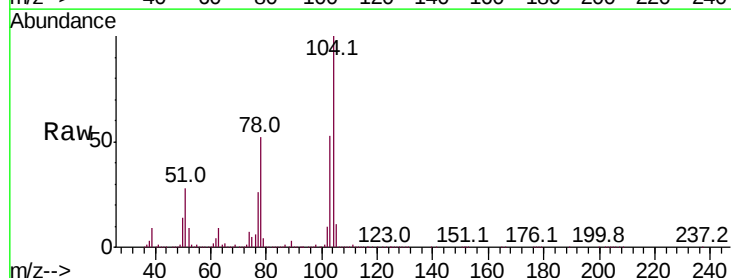
Tgt Ion:104 Resp:16622104

Ion Ratio Lower Upper

104 100

78 51.7 43.4 65.0

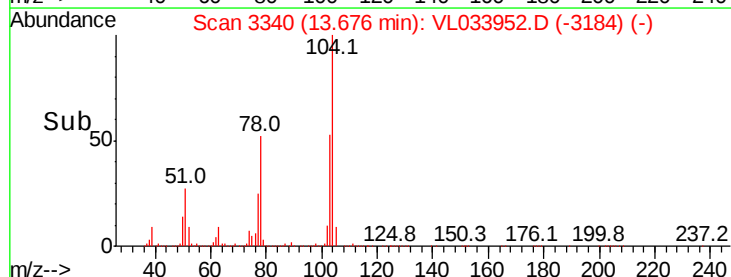
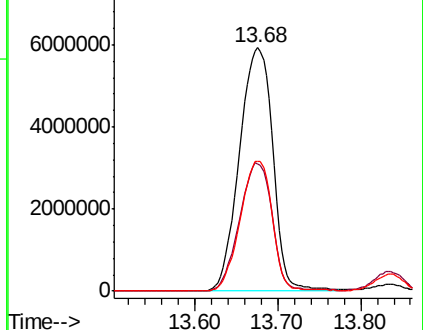
103 51.2 37.6 56.4

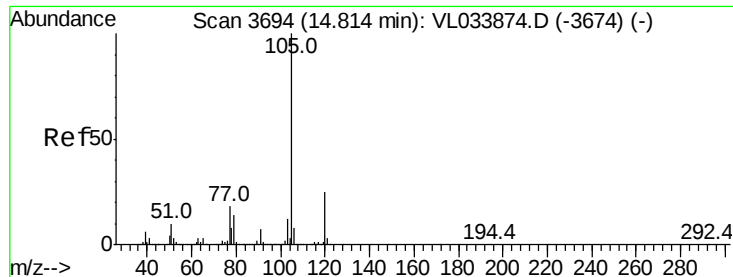


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V





#62

Isopropylbenzene

Concen: 1.277 ppbv

RT: 14.80 min Scan# 3691

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

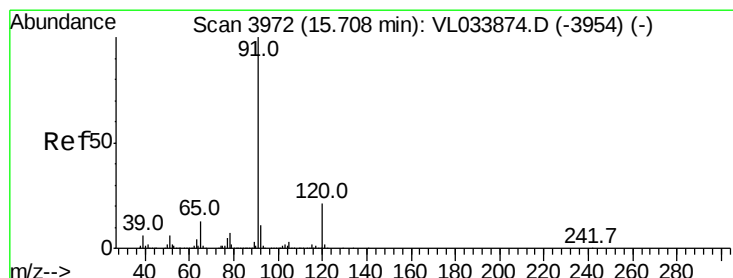
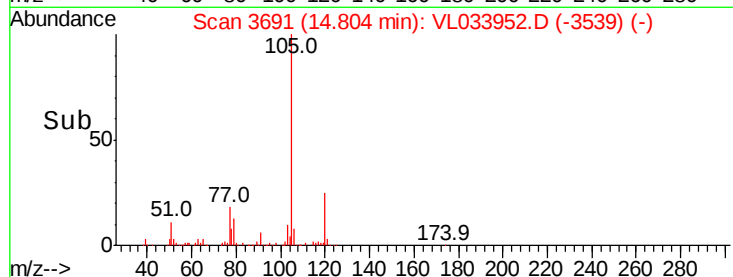
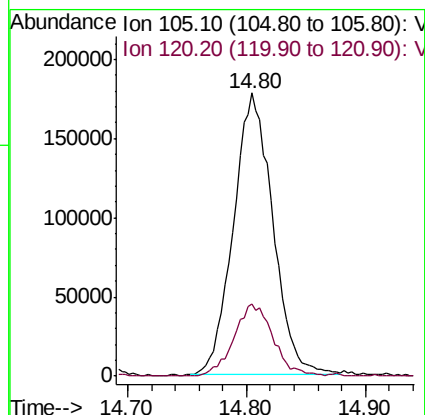
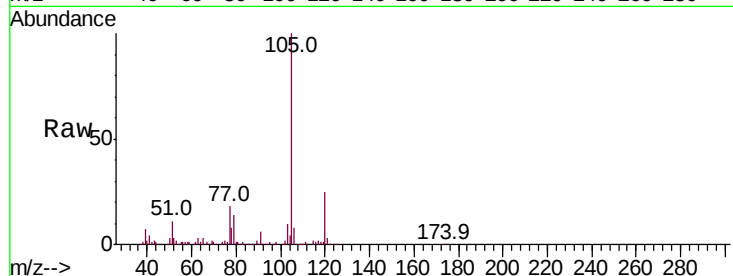
TZC-SSDS-AREA-D-1

Tot Ion:105 Resp: 408141

Ion Ratio Lower Upper

105 100

120 25.8 20.3 30.5



#64

n-propylbenzene

Concen: 1.336 ppbv

RT: 15.70 min Scan# 3969

Delta R.T. -0.01 min

Lab File: VL033952.D

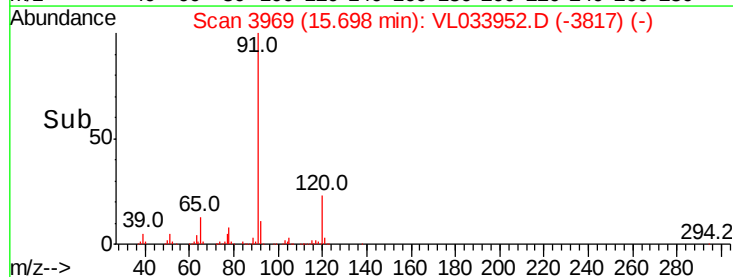
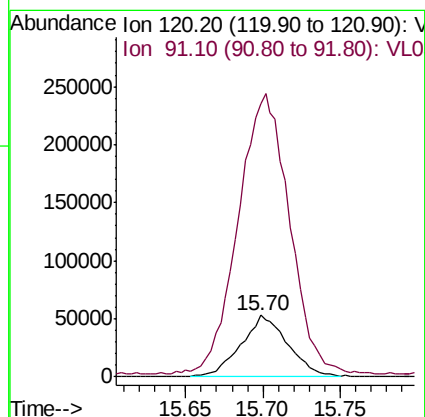
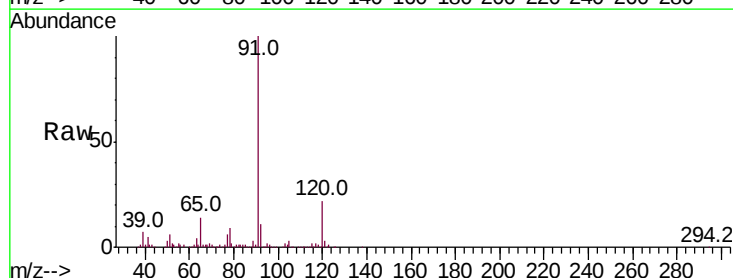
Acq: 25 Jun 2019 1:16

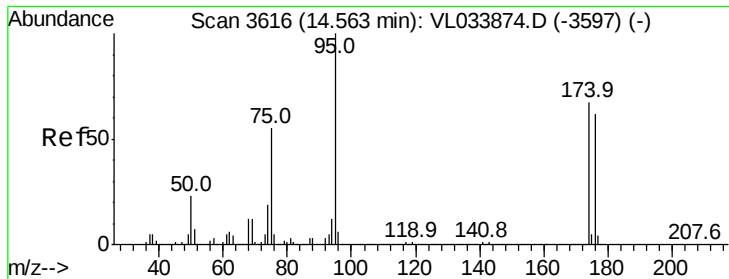
Tgt Ion:120 Resp: 109359

Ion Ratio Lower Upper

120 100

91 521.6 387.0 580.6





#68

1-Bromo-4-Fluorobenzene

Concen: 10.772 ppbv

RT: 14.56 min Scan# 3614

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-1

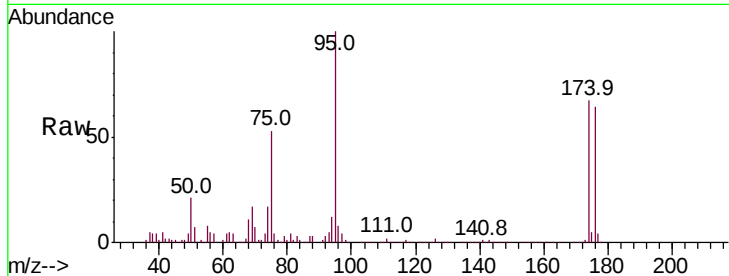
Tot Ion: 95 Resp: 1982295

Ion Ratio Lower Upper

95 100

174 68.5 54.0 81.0

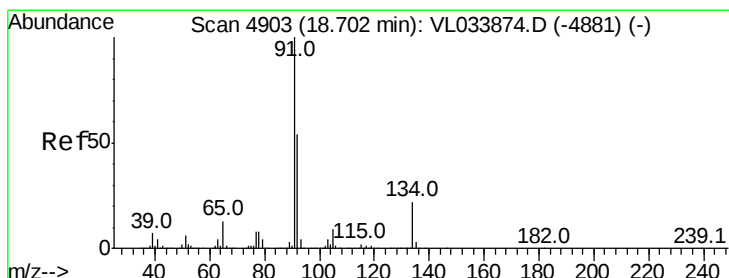
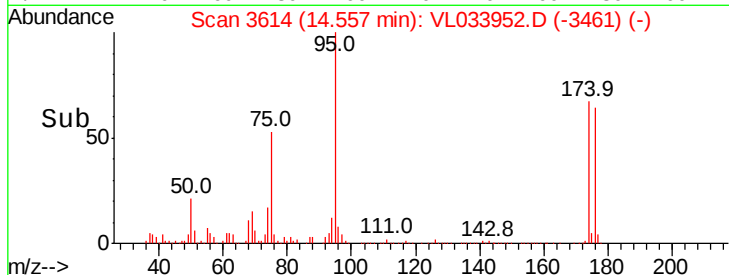
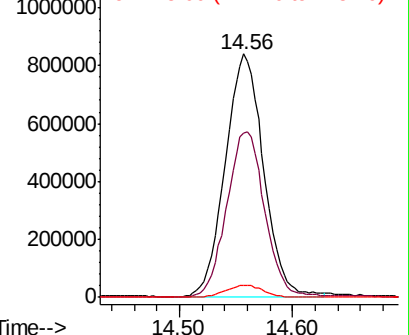
175 5.0 3.8 5.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#70

n-Butylbenzene

Concen: 0.147 ppbv

RT: 18.69 min Scan# 4900

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

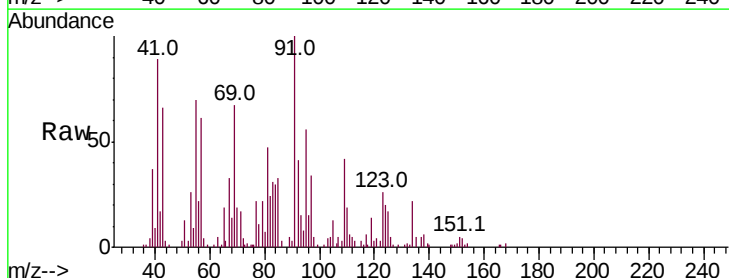
Tgt Ion: 91 Resp: 55456

Ion Ratio Lower Upper

91 100

92 48.8 42.5 63.7

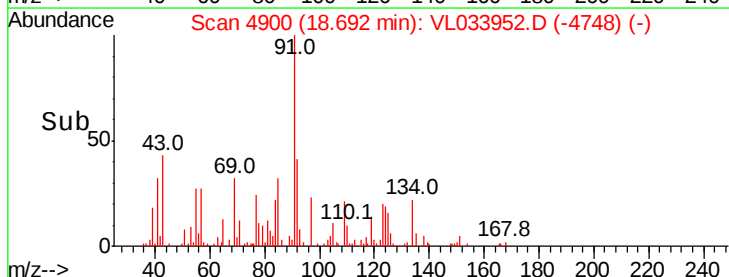
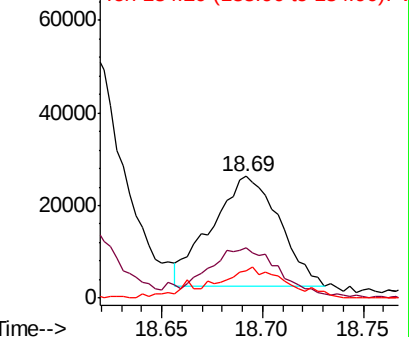
134 31.7 17.8 26.6#

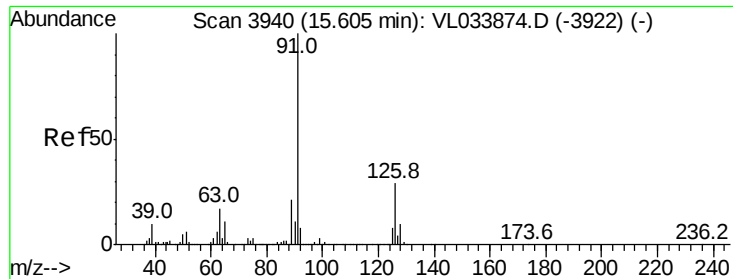


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V

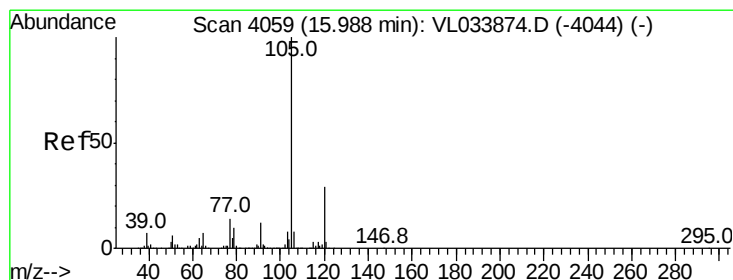
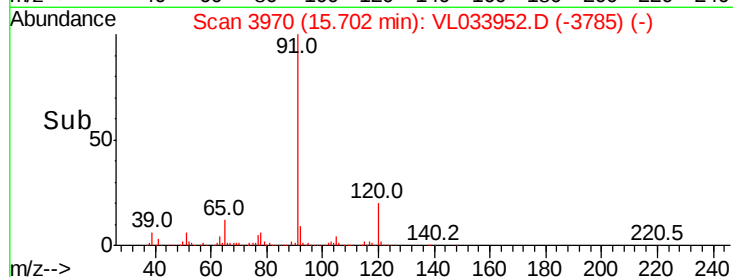
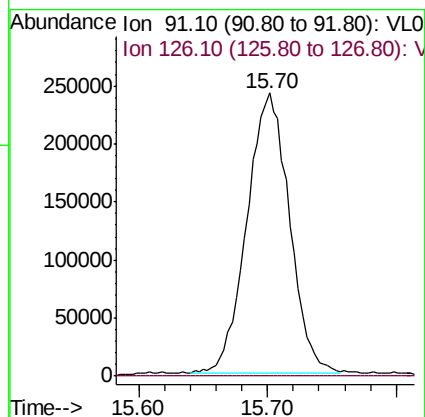
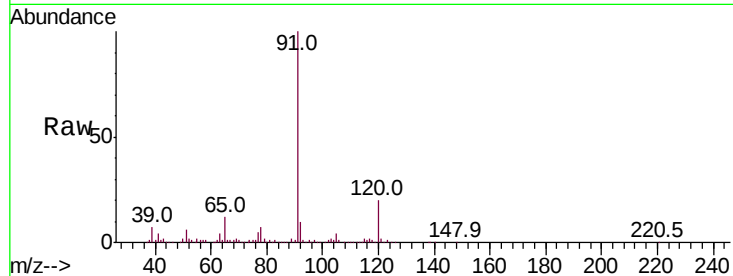




#71
 2-Chlorotoluene
 Concen: 2.361 ppbv
 RT: 15.70 min Scan# 3970
 Delta R.T. 0.10 min
 Lab File: VL033952.D
 Acq: 25 Jun 2019 1:16

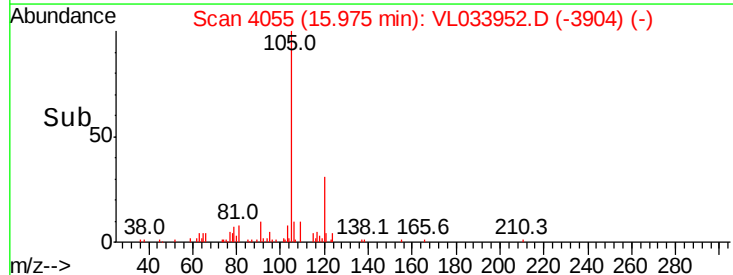
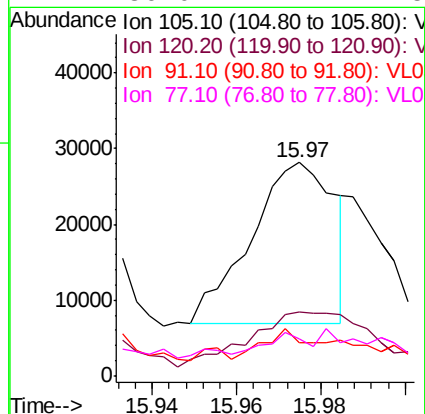
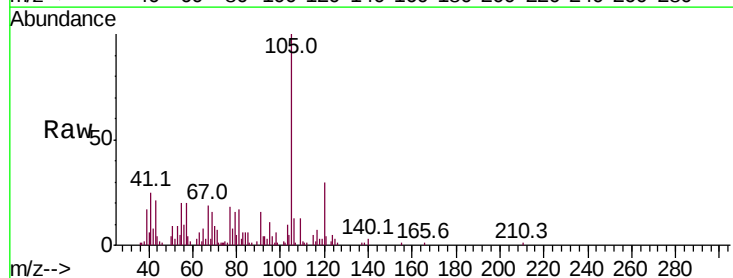
Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-D-1

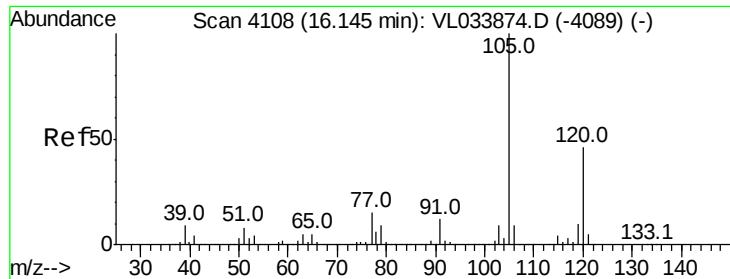
Tot Ion: 91 Resp: 555974
 Ion Ratio Lower Upper
 91 100
 126 0.3 12.0 48.2#



#72
 4-Ethyltoluene
 Concen: 0.109 ppbv
 RT: 15.97 min Scan# 4055
 Delta R.T. -0.01 min
 Lab File: VL033952.D
 Acq: 25 Jun 2019 1:16

Tgt Ion: 105 Resp: 29322
 Ion Ratio Lower Upper
 105 100
 120 65.2 23.5 35.3#
 91 0.0 10.4 15.6#
 77 36.0 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.124 ppbv

RT: 16.14 min Scan# 4105

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

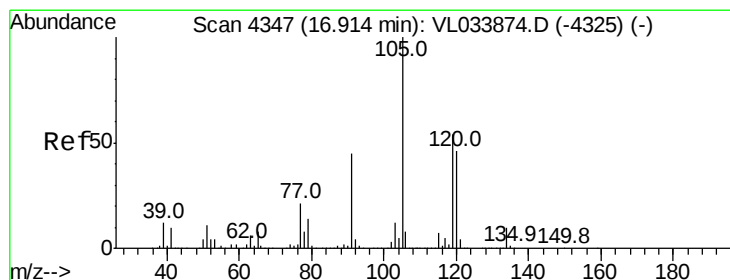
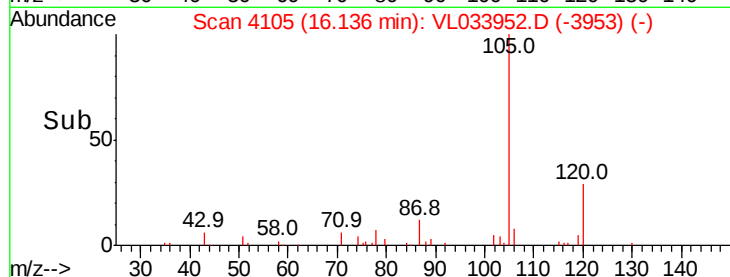
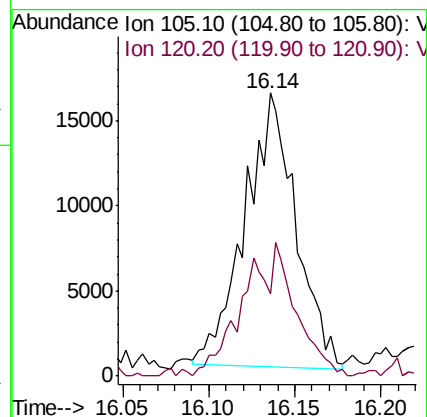
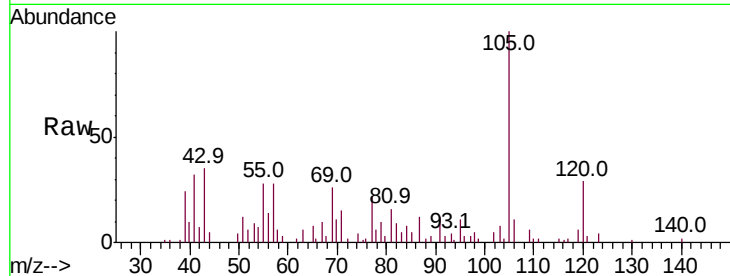
TZC-SSDS-AREA-D-1

Tot Ion:105 Resp: 33018

Ion Ratio Lower Upper

105 100

120 33.0 37.1 55.7#



#74

1,2,4-Trimethylbenzene

Concen: 0.155 ppbv

RT: 16.90 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Tgt Ion:105 Resp: 47491

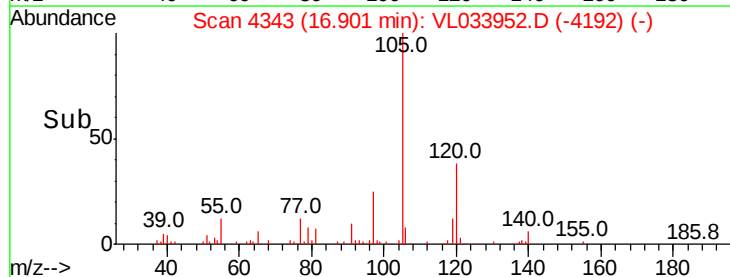
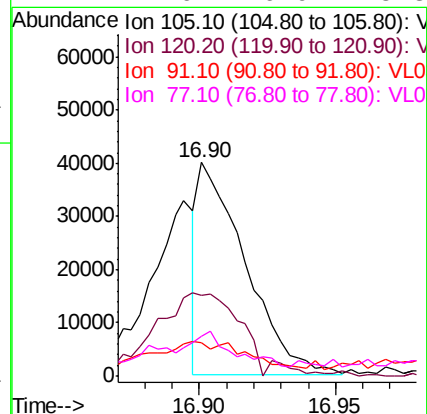
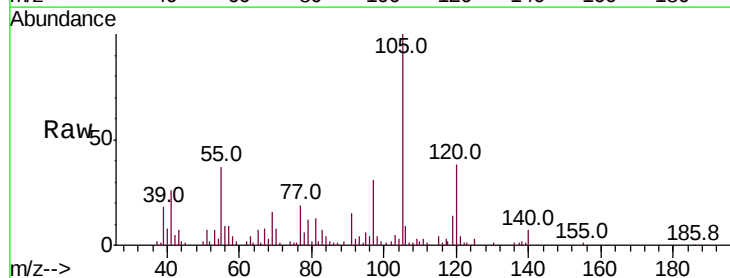
Ion Ratio Lower Upper

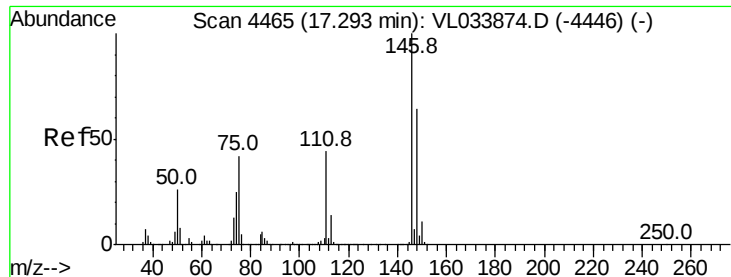
105 100

120 35.9 36.7 55.1#

91 9.3 35.8 53.8#

77 14.6 16.9 25.3#

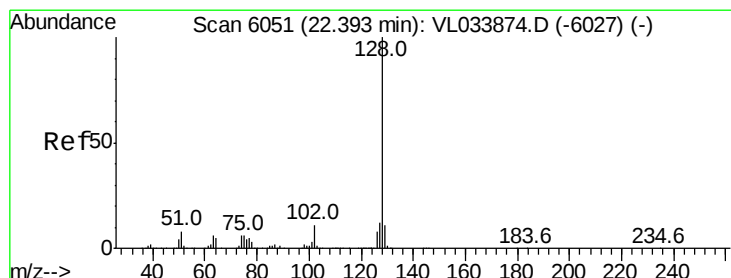
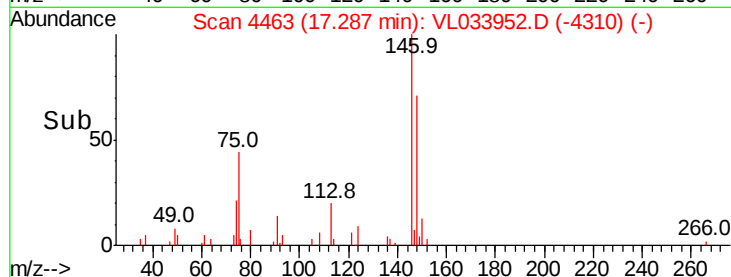
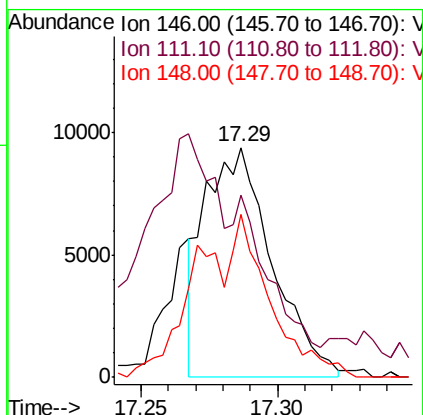
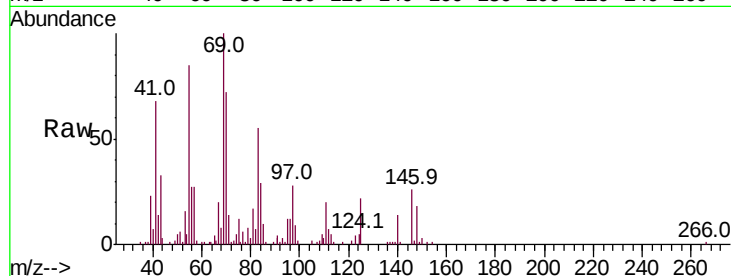




#76
 1,4-Dichlorobenzene
 Concen: 0.091 ppbv
 RT: 17.29 min Scan# 4463
 Delta R.T. -0.01 min
 Lab File: VL033952.D
 Acq: 25 Jun 2019 1:16

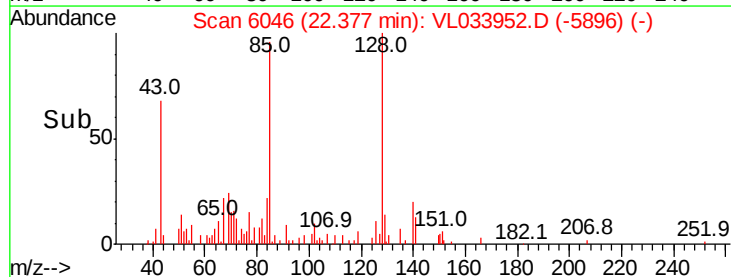
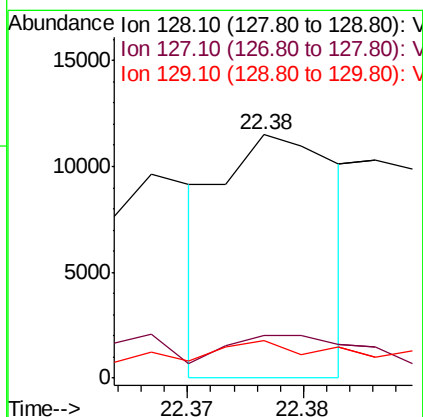
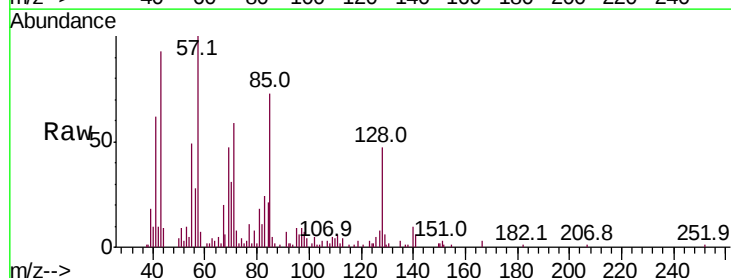
Instrument :
 MSVOA_L
 ClientSampleId :
 TZC-SSDS-AREA-D-1

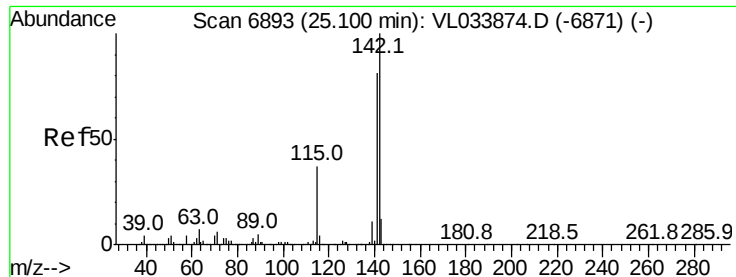
Tot Ion:146 Resp: 16014
 Ion Ratio Lower Upper
 146 100
 111 150.5 22.1 66.5#
 148 77.3 32.4 97.0



#79
 Naphthalene
 Concen: 0.033 ppbv
 RT: 22.38 min Scan# 6046
 Delta R.T. -0.02 min
 Lab File: VL033952.D
 Acq: 25 Jun 2019 1:16

Tgt Ion:128 Resp: 8056
 Ion Ratio Lower Upper
 128 100
 127 57.5 9.7 14.5#
 129 40.1 8.6 12.8#





#80

Naphthalene, 2-methyl-

Concen: 0.056 ppbv

RT: 25.09 min Scan# 6889

Delta R.T. -0.01 min

Lab File: VL033952.D

Acq: 25 Jun 2019 1:16

Instrument :

MSVOA_L

ClientSampleId :

TZC-SSDS-AREA-D-1

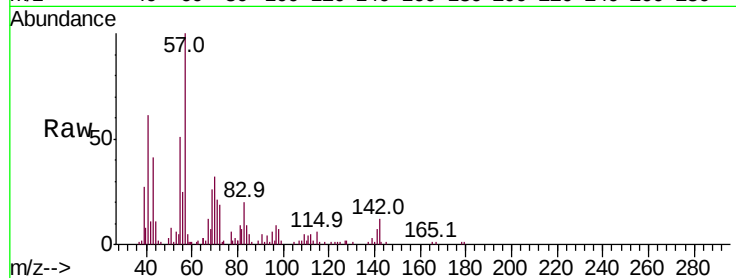
Tot Ion:142 Resp: 5494

Ion Ratio Lower Upper

142 100

141 87.5 65.7 98.5

115 93.4 28.9 43.3#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

